SUBMIT IN TR' CATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instruc,

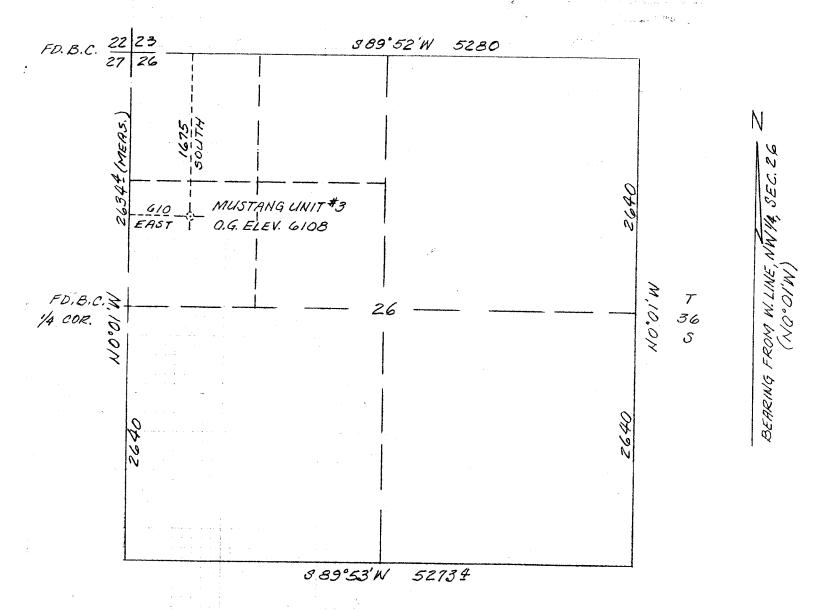
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*	DEPARTMEN'	T OF THE INTE	ERIOR		5. LEASE DESIGNATION AND SEBIAL NO.
	GEOLO	GICAL SURVEY			U-20024
	n for permit	TO DRILL, DEE	PEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OF TRIBE NAME
la. TYPE OF WORK	RILL 🖾	DEEPEN	PLUG BAG	K 🗆	7. UNIT AGREEMENT NAME
b. Type of well			MUSTANG UNIT		
WELL A	GAS WELL OTHER	LE	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	OUTE OF A	OMD ANTE			9. WELL NO.
. ADDRESS OF OPERATOR	SKYLINE OIL C	OMPANY			3
		o Salt Lab	e City, Ut. 8	/.111	10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Report location clearly and	in accordance with any	y State requirements.*)	4111	Wildcat
At surface	1675' FNT (S	UNU Soc 26	, T.36 S.,R.2	2 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zo		witw) Sec. 20		з г., В&М	Sec.26, T.36 S.,R.23
Same					
	AND DIRECTION FROM NEA		ICE*		12. COUNTY OR PARISH 13. STATE
6 miles e	east of Bland		We the last of the	1 17 10	San Juan Utah
15. DISTANCE FROM PROI LOCATION TO NEARES PROPERTY OR LEASE	ST	. 1	NO. OF ACRES IN LEASE 320		HIS WELL
(Also to nearest dr 18. DISTANCE FROM PRO	lg. unit line, if any)	610	PROPOSED DEPTH	90 ROTA	80 RY OR CABLE TOOLS
	DRULLING, COMPLETED.	NA I	6500'	20. 1011	Rotary
	hether DF, RT, GR, etc.)	NA	0300	<u> </u>	22. APPROX. DATE WORK WILL START*
GL-6108					
23.		PROPOSED CASING A	ND CEMENTING PROGRA	M	· · · · · · · · · · · · · · · · · · ·
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
L6''	13-3/8"	48#	300'	I	-mix (to surface)
12¼'' 8-3/4''	9-5/8" 5½"	36# 15.5 & 17#	2200' 6500'	1 ~ ~ ~	sx. (circ. to surface
Vell will be	BOP diagrams mudded up as mation tops a Surface - 1	s required.	ws:	S. S	MINERALS MANAGEMENT SERVICE OIL & GAS OPERATIONS RECEIVED JUN 30 1982 SALT LAKE CITY, UTAH
		Entrada	- 600	, "T _i ,	
		Navajo	- 14	0,0	AGEH ERATIO 1982
		Chinle Ismay	- 2135 V	<i>₩</i> .	MEN IONS
		Desert Creek	- 6340'	0.	=
		Jebere Greek	0340	•	
one. If proposal is to reventer program, if and 4.	drill or deepen direction	ally, give pertinent data	on subsurface locations ar	d measure	uctive zone and proposed new productive d and true vertical depths. Give blowout
	:				
PERMIT NO.	1 , 011		APPROVAL DATE		
APPROVED BY	nad Lollar	FOR			DATE JUL 2 7 1982
CONDITIONS OF THERO	VAL, IF ANY:	7	DISTRICT OIL & GAS SU		
	C	ONDITIONS OF	APPROVAL ATT	へしロビリ	

NOTICE OF APPROVAL

TO OPERATOR'S COPY

*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80



WELL LOCATION PLAT OF
MUSTANG UNIT Nº 3 IN
SW '4 NW '4, SEC. 26, T36S, R23E, S.L.B. & M.
SAN JUAN COUNTY, UTAH
TRANSIT & EDM, SURVEY
FOR: SKYLINE OIL COMPANY
SCALE: 1"= 1000' JUNE 10, 1982

ELEV. BY VER. ANGLES FROM U.S.G.S. TOPO. QUAD. "BLANDING, UTAH" 1957 (W. 1/4 COR. SEC. 26 = 6000)

Ala E Kengh OTAH R.L.S. Nº1963

ATTACHMENT "A"

SKYLINE OIL COMPANY
WILDCAT OIL WELL
MUSTANG UNIT NO. 3
SW NW Sec. 26, T. 36 S., R. 23 E.
SAN JUAN COUNTY, UTAH

1. Geologic Name of Surface Formation:

Dakota Formation (Lower Cretaceous)

2. Estimated Tops of Important Geologic Markers:

Entrada	- .	1215'	Cutler	-	3090 '
Navajo	_	1410'	Hermosa	_	4755 '
Wingate	_	1865'	Ismay	_	6095'
Chinle	_	2155'	Desert Creek	***	6340'
Shinarump	_	2790'	Akah Shale	-	6450 '
Moenkopi	_	2905'		-	

3. Water sands will be protected behind the surface pipe set at 2050'. Prospective oil producing formations are the Ismay and Desert Creek.

4. Proposed Casing Program:

Hole Size(in)	Csg. Siz	e & Weight (lb/ft)	Cond.	Depth (ft)	Cement
16" 12½" * 8-3/4"	13-3/8" 9-5/8" 5½"	48 36 15.5 & 17	New New New	300' 2200' 6500'	Redi-mix 950 sx. 900 sx.

Setting

*Note: If logs indicate possible pay zones in both the Desert Creek and Ismay formations, the 5½" casing string will be replaced by a 7" 20-26#/ft casing string.

Actual cement volumes will be determined by caliper log plus adequate excess.

5. Pressure Control Equipment

Pressure control equipment will consist of a 10" 3000 psi WP double gate hydraulic BOP and a 10" 2000 psi WP Hydril above a 10" 3000 psi WP casinghead with screwed outlets. (See schematic drawings of BOP assembly and choke manifold). After setting surface casing, we will wait on cement 8 hrs, nipple up the BOP assembly and test BOP's and casing to 2000 psi - Hydril to 1000 psi. Surface casing will be drilled out after 24 hrs. W.O.C. Pipe ram operation will be checked daily and blind rams operated when pipe is removed from hole on trips.

6. Drilling Mud Program:

Interval	Program
0 - 2200'	Fresh water w/gel as required to maintain viscosity at 28-32 sec.
2200 - 4000'	Fresh water, low solids & lightly dispersed MW: 8.8 - 9.0 Vis: 32-38 WL: 10-15 cc
4000 - 6500'	Fresh water, low solids & lightly dispersed MW: 8.8 - 9.5 Vis: 36-40 W.: Less than 10

7. Auxiliary Equipment:

Auxiliary equipment to be used will consist of upper and lower Kelly cocks and a full-opening drillpipe valve and sub, in open position, on the floor at all times. A bit float will not be utilized unless conditions dictate.

8. Testing, Coring and Logging Program:

Two drillstem tests are possible - one in each of the Ismay and Desert Creek Formations.

Two cores are possible - one each in the Ismay and Desert Creek Formations. Anticipated length of each core is 60'.

The logging program is as follows:

GR - Dual Induction GR - FDC - CNL - CAL		to bottom to 4000'	of	surface	pipe		
GR 0 Sonic	TD t	to bottom	of	surface	pipe v	ø∕GR	to

9. Anticipated Abnormal Pressures, Temperatures & Potential Hazards:

No abnormal pressures, temperatures or hazards are anticipated.

10. It is anticipated that drilling operations will commence on or about August 1, 1982 with approximately 20 days of drilling to reach T.D. Completion operations will require an additional 30 - 45 days.

MULTIPOINT SURFACE USE AND OPERATIONS PLAN

SKYLINE OIL COMPANY MUSTANG UNIT No. 3

610' FWL & 1675' FNL (SW NW) Sec. 26, T. 36 S., R. 23 E. San Juan County, Utah

1. Existing Roads - Exhibit "A"

The attached Exhibit "A" shows the well site, as staked, in its position relative to existing roads, planned access road, and topography.

To reach drillsite, turn east off U.S. Route 160 12½ miles south of Monticello, Utah onto Alakali Point Road. Follow road southeast approximately 2.9 miles to a point of intersection. Turn left or east on graded, improved road and travel approximately 3.9 miles to existing unimproved service road shown in yellow. Turn right onto existing service road and travel approximately 0.3 miles to access road turnoff.

All existing roads are shown in blue and yellow on Exhibit "A"

All county roads are maintained and are all-weather roads. No maintenance or improvements to existing county roads are planned. Grading will be done if necessary.

2. Planned Access Road

The attached Exhibit "A" shows the planned access road in red. The existing unimproved service road will be improved as necessary. The access road will be 20' wide through unchained areas and a maximum of 24' wide through chained areas. Total length of access road will be approximately 2/3 mile. Approximately 1/3 mile of the access road will follow existing seismic and caterpiller trails. The remaining 1/3 mile will be new access. Road will be outsloped. No cattleguards or fences will be required. Culverts will be installed where required. If a permanent road is required, the surface will be elevated, crowned, ditched, and drainage installed as needed. Surfacing material for a permanent road would be gravel purchased from surface contractor.

3. Location of Existing Wells - Exhibit "A"

Exhibit "A" identifies existing wells within a two-mile radius of the proposed location. They are as follows:

- (a) Water wells one
- (b) Drilling wells one
- (c) Producing wells one

4. Location of Existing and/or Proposed Facilities - Exhibit "B"

- A. The existing facilities owned by the operator consist of a tank battery located on the well pad of the Mustang Unit No. 1 as shown on Exhibits "A" and "B".
- B. The proposed production facilities layout is shown on Exhibit "B" at a 1" = 50' scale. All production equipment, production pit and burn pit will be fenced. Two 500-barrel steel production tanks and one 300-barrel fiberglass water tank will be inside a 60' x 30' x 4.5' earthen retaining wall to prevent contamination in the unlikely event of a tank rupture. All flowlines will be buried and have working pressures exceeding the highest pressure anticipated for their use.
- C. The disturbed area not required for production operations will be restored in such a manner as practical, to conform to the original topography. Topsoil will be redistributed evenly over the disturbed, unused area and re-seeded with the following seed prescription:
 - 1 lb/acre Sand dropseed (Sporobolus cryptandrus)
 - 2 lbs/acre Alkali sacaton (Sporobolus airodies)
 - 1 lb/acre Shadscale (Atriplex certifolia)
 - 1 lb/acre Curleygrass (Hilaria jamesii)
 - 1 1b/acre Desert Bitterbrush (Purshia glandulosa)

5. Location and Type of Water Supply

Water used for drilling and completion operations will be obtained from a spring-fed pond located in NW SW NW Sec. 34, T. 35 S., R. 23 E., from a private pond located in SW SW Sec. 15, T. 37 S., R. 22 E., or from the proposed Mustang Unit Water Supply Well No. 1 located in NW NE SW Sec. 14, T. 36 S., R. 23 E.

6. Source of Construction Materials

No construction materials not available at the drill site or along the access route will be required during drilling operations other than gravel. If required, gravel will be purchased through the surface contractor.

7. Methods of Handling Waste Disposal:

Drill cuttings, water, drilling fluids, etc., created by drilling operations will be placed in the reserve pit. When sufficient time has elapsed for liquid wastes to dry, the reserve pit will be backfilled as close to the original contour as possible, topsoil spread and re-seeded as per above seed prescription.

Sewage disposal will be by self-contained chemical toilets with disposal in an approved sanitary land fill.

All garbage will be contained in a trash cage. All trash and garbage will be removed from location and disposed of in an approved sanitary land fill.

All produced fluids will be stored in tanks and trucked from location; oil to the pipeline transfer point; and water to an approved disposal well or a drilling well.

8. Ancillary Facilities

None are planned.

9. Wellsite Layout - Exhibits "C" and "D"

Attached Exhibit "C" is a schematic of the drilling site layout. Exhibit "D" is the cross-sections of the proposed location showing amounts of cut and fill required. The reserve pit is to be lined with commercial bentonite with at least one-half of the capacity cut in.

The top 6 inches of soil material will be removed from the location and stockpiled separate from the trees on all practical sides of the location.

10. Plans for Restoration of Surface

The reserve pit and unused surface will be restored and contoured as close as practical to the original topography. All disturbed areas will be scarified with the contour to a depth of 4 - 6 inches upon rehabilitation.

Unused disturbed land will be covered with stockpiled topsoil and re-seeded as per previously stated seed prescription. Seed will be broadcast. After broadcasting, area will be dragged with a harrow or similar implement. After seeding is complete, any stockpiled trees will be distributed evenly over disturbed areas.

Pits will be fenced on three sides with four strands of barbed wire. After drilling operations cease, the fourth side will be fenced. The fence will be kept in good repair until pits are restored.

Upon completion of drilling operations, the location and surrounding area will be cleared of all debris. All trash will be removed from location and disposed of in an approved sanitary land fill.

Prior to any rehabilitation work requiring earth-moving equipment, the BLM officer in Monticello, Utah will be given

48 hours notice. Upon completion of restoration measures, notices will be provided.

11. Other Information

Vegetation consists of sagebrush, juniper, pinion pine, and assorted native grasses. Fauna include deer, rabbit, assorted birds and lizards, and various flying and crawling insects.

The leasehold acreage is Federal with the surface administered by the Bureau of Land Management.

Grazing is the only surface use activity in the immediate area of the proposed location.

No dwellings of any type exist in the area. No archeological site, historic or cultural site will be disturbed by the proposed operations. If subsurface cultural material is exposed during construction, work will be halted and the San Juan Resource Area office contacted immediately.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route.

Surfacing material will not be placed on the access road or location without prior BLM approval.

The San Juan Resource Area Office in Monticello, Utah will be notified 48 hours in advance of the beginning of any work on public land.

Any burning will meet state requirements. Prior to burning any trash, a burning permit will be acquired from the State.

12. Lessee's or Operator's Representative:

Operator's representatives for drilling and completion operations will be:

Mr. Reed G. Spjut
Mr. Michael D. Anderson
c/o Skyline Oil Company
2000 University Club Building
Salt Lake City, Utah 84111
Telephone: (801) 521-3500

Mr. Terry Crowson Telephone: (801) 259-2075

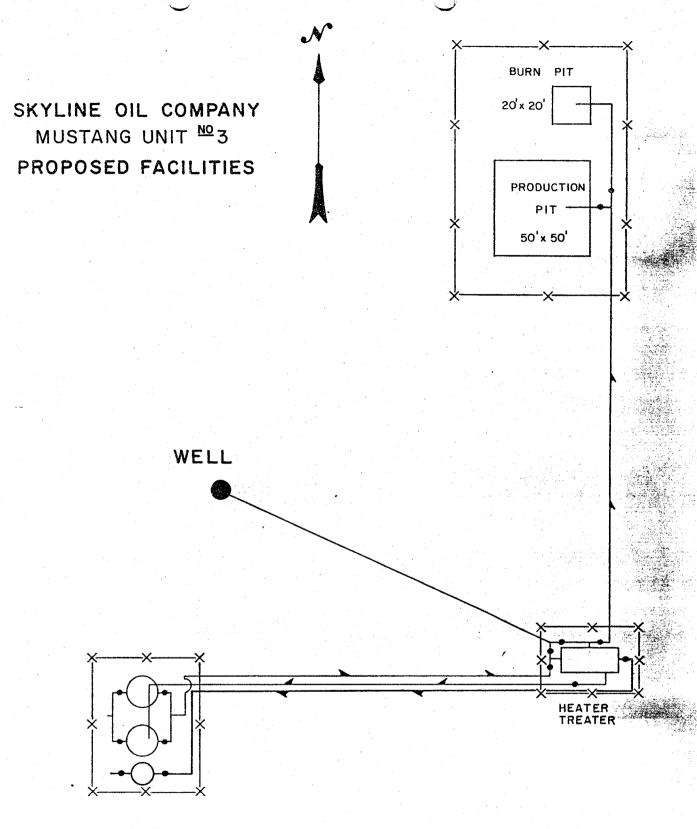
13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Skyline Oil Company and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Michael D. Anderson

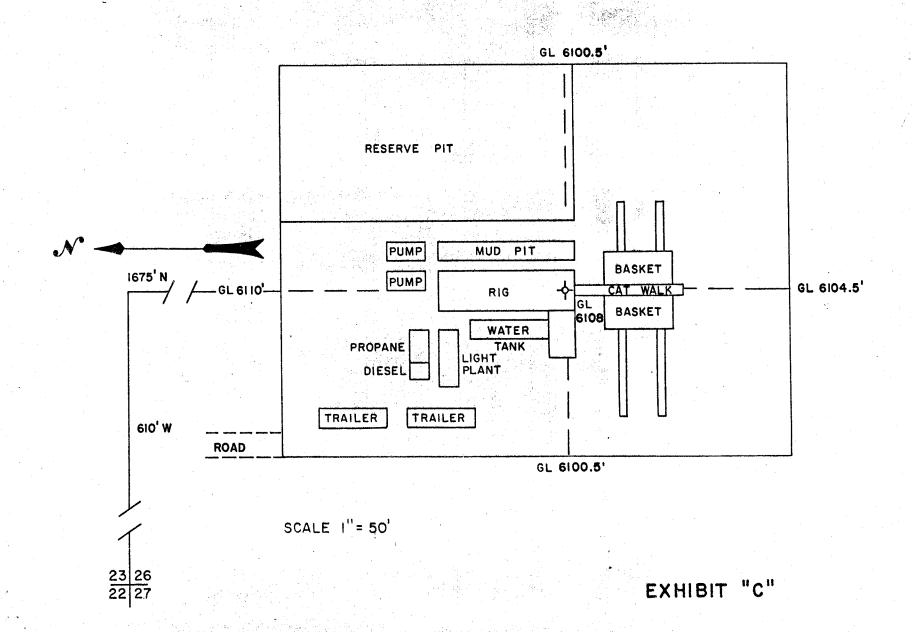
Senior Petroleum Engineer

Attachments

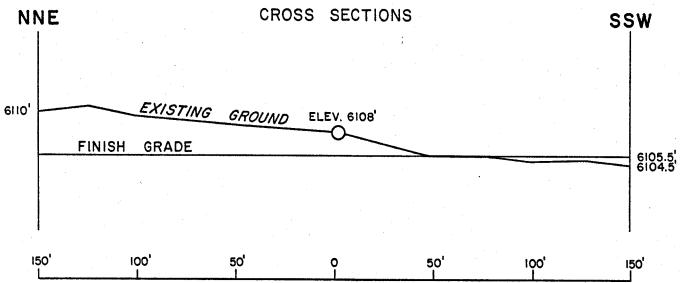


SCALE |" = 50

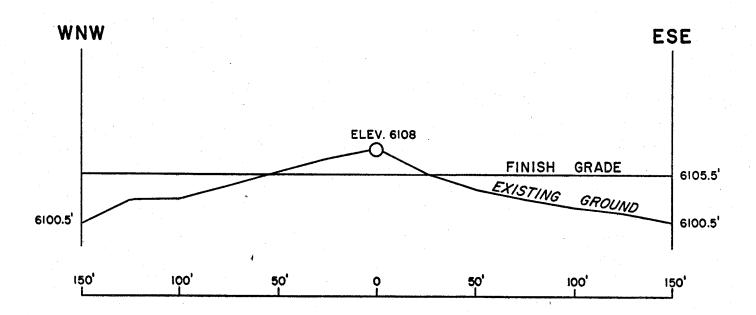
SKYLINE OIL COMPANY MUSTANG UNIT [№]3 SITE PLAN



SKYLINE OIL COMPANY MUSTANG UNIT NO.3



HORIZONTAL SCALE : "= 50'
VERTICAL SCALE : "= 10'



Identification No. 403-901L&GAS OPERATIONS
SERVICE
RECEIVED
JUL 211982
The Interior ay
Building
Buth
84104

E. W. GUYNN DISTRICT OIL & GAS SUPERVISOR

District Supervisor

United States Department of the Interior Geological Survey 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION
operator Styling O:1 Co.
roject Type dual zone confirmation well (oil)
roject Location 610 FWL/1675 FNL, Sec. 26, T. 365. R. 2.3E. Sen
roject Location 610 FWL/1675 FWL, Sec. 26, T. 365. R. 23E. Sand Well No. #3 Mostans Unit Lease No. U - 20024
ate Project Submitted
IELD INSPECTION Date June 15, 1982
Tackie Mont - Bureau of Land Managemy Don Englishmen - MM
have reviewed the proposal in accordance with the categorical exclusion eview guidelines. This proposal would not involve any significant effects nd, therefore, does not represent an exception to the categorical exclusions. Tune 15, 1982 Date Prepared Environmental Scientist

I concur

JUL 2 2 1982

Date

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

	Criteria 516 DM 2.3.A	Federal Corre- spondence (date)	l/State Ag Phone check (date)	ency Meeting (date)	Local and private corre-spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
1.	Public health and safety						V4			
2.	Unique charac- teristics							~		
3.	Environmentally controversial									
4.	Uncertain and unknown risks					·		V		
5 .	Establishes precedents									
6.	Cumulatively significant							V	Confirmat for new.	tield
7.	National Register historic places	VI								
8.		V1								
9.	Violate Federal, State, local, tribal law						V4			

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

- Surface Management Agency Input
- 2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
- 3. Lease Stipulations/Terms
- 4. Application for Permit to Drill
- 5. Operator Correspondence
- 6. Field Observation
- 7. Private Rehabilitation Agreement

Romandy;

- 1. Location not changed as stated (during ansite)
 location is unorthodox due to toposyaphy
 (steep carryons to south and west)
- 2. Water source: Hantsville, Utal, or a new water well (if dvilled).



United States Department of the Interior

IN REPLY REFER TO T36S,R23E,S26 (U-069)

BUREAU OF LAND MANAGEMENT Moab District San Juan Resource Area P.O. Box 7 Monticello, Utah 84535

July 15, 1982

Memorandum

To:

Minerals Management Service, Salt Lake City, Utah

JUL 1 6 1982

From:

Area Manager, San Juan

MINERALS MANAGEMENT SERVICE DURANGO, CO

Subject: Skyline Oil's Mustang Unit #3 Well (U-20024)

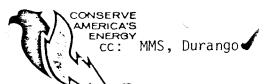
We concur with approval of the well subject to the following stipulations:

- The operator will give the dirt contractor a copy of the Surface Use Plan and any additional BLM stipulations prior to any work.
- The San Juan County Road Department in Monticello will be contacted prior to the use of county roads for this activity at (801) 587-2231, Ext. 43.
- Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer (801) 637-1303 and by receiving permission from the land owner or surface managing agency to use the land containing the water source.
- 4. If a dry hole results, the stockpiled topsoil will be evenly distributed over the disturbed area and the two-thirds of a mile of new access will be reclaimed, blocked, and water barred as follows:

<u>Grade</u>	<u>Spacing</u>				
2% 2-4%	Every 200 feet Every 100 feet				
4-5%	Every 75 feet				
5+%	Every 50 feet				

5. All above-ground production facilities will be painted a neutral color to be approved by the BLM.

The archaeological requirement has been fulfilled. No threatened or endangered species are indicated.



Save Energy and You Serve America!

Skyline Oil Company 2000 University Club Building Salt Lake City, Utah 84111

Gentlemen:

Our records indicate you have filed federal application for permit to drill Well No. 3, but have not yet filed application with the State of Utah. Applications must be approved by the State in addition to federal approval in order to commence drilling.

Please provide the necessary application for permit to drill, or otherwise advise on the status of the permit. A copy of the federal application with attachments and cover letter is acceptable.

Respectfully,

Norm Stout

NS/as

2nd NOTICE

Skyline Oil Company 2000 University Club Building Salt Lake City, Utah 84111

> RE: Well No. Mustang Unit #3 Sec. 26, T.36S, R.23E San Juan County, Utah

Gentlemen:

Our records indicate you have filed federal application for permit to drill Well No. Mustange Unit #3, but have not yet filed application with the State of Utah. Applications must receive State approval in addition to federal approval in order to commence drilling.

Please provide the necessary application for permit to drill, or otherwise advise on the status of the permit. A copy of the federal application with attachments and cover letter is acceptable.

Respectfully,

Norm Stout Administrative Assistant

NS/as

SKYLINE Oil Company

A TEXAS EASTERN COMPANY

November 22, 1982

State of Utah Division Oil, Gas & Mining 4241 State Office Building Salt Lake City, Utah 84114

Attention: Mr. Norm Stout

Re Mustang Unit # 3
Sec. 26, T. 36 S., R. 23 E.
San Juan County, Utah

Dear Mr. Stout:

In regards to your letter dated November 18, 1982, please be advised that at present Skyline Oil Company has temporarily suspended planned operations for the Mustang Unit # 3. If further evaluation indicates that the subject well is to be drilled, an Application For Permit to Drill will be submitted prior to any work associated with the drilling of this well.

Respectfully,

Michael D. Anderson Senior Petroleum Engineer

NOV 2 3 1982

DIVISION OF OIL, GAS & MINING

SKYLINE Oil Company

A TEXAS EASTERN COMPANY

April 29, 1983

State of Utah Division of Oil, Gas, and Mining 4241 State Office Building Salt Lake City, Utah 84114

Gentlemen:

Please find attached in triplicate Skyline Oil Company's Application for Permit to Drill the Mustang Unit No. 3 located in SW NW Sec. 26, T. 36 S., R. 23 E., San Juan County, Utah.

Designation of Operator forms from Beard Oil Company for Lease No. U-20024 are currently on file.

Sincerely,

Michael D. Anderson,

Senior Petroleum Engineer

Attachments



DIVISION OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

SUBMIT ________ (Other instructions on reverse side)

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*See Instructions On Reverse Side/

OPERATOR SKYLINE OIL CO	DATE <u>5-2-83</u>
WELL NAME MUSTANG UNIT #3	
SEC SWNW 76 T 365 R 230	COUNTY SAN JUAN
1/2 27 7.00	FED
43-037-30894 API NUMBER	TYPE OF LEASE
POSTING CHECK OFF:	
INDEX	
NID PI	
MAP	
PROCESSING COMMENTS:	
THE	
APPROVAL LETTER:	
SPACING: A-3 MUSTANG UNIT	c-3-a CAUSE NO. & DATE
c-3-b	c-3-c
SPECIAL LANGUAGE:	
	·

1 (e

3 10°

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
AUTHENTICATE LEASE AND OPERATOR INFORMATION
VERIFY ADEQUATE AND PROPER BONDING
AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
APPLY SPACING CONSIDERATION
ORDER
UNIT MUSTANG
c-3-b
c-3-c
CHECK DISTANCE TO NEAREST WELL.
CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

Skyline Oil Company 2000 University Club Bldg. Salt Lake City, Utah 84111

RE: Well No. Mustang Unit #3
SWNW Sec. 26, T.36S, R.23E
1675 FNL, 610 FWL
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to <u>immediately</u> notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer Office: 533-5771

Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30894.

Sincerely,

Norman C. Stout

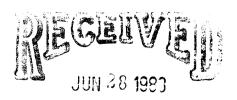
Administrative Assistant

NCS/as

cc: Oil & Gas Operations

Enclosure

NOTICE OF SPUD
Company:
Caller: Miled Anderson
Phone:
Well Number: #3
Location: 50 NW26-365-23E
County: San Luan State: Utah
Lease Number: U-20024
Lease Expiration Date:
Unit Name (If Applicable): Mustan
Date & Time Spudded: 6-23-83 7:30 p.m.
Dry Hole Spudder/Rotary: Sour Camero #8
Details of Spud (Hole, Casing, Cement, etc.)
Rotary Rig Name & Number:
Approximate Date Rotary Moves In:
FOLLOW WITH SUNDRY NOTICE
Call Received By:
Date: 6-24-83



DIVISION OF GAS & MINING

UNITED STATES SUBMIT EPARTMENT OF THE INTERIOR Verse side

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

DEPARTM G	U-20024	
(Do not use this form for proposi	CES AND REPORTS ON WELLS als to drill or to deepen or plug back to a different reservation FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL GAS WELL OTHER		7. UNIT AGREEMENT NAME Mustang Unit
2. NAME OF OPERATOR SKYLINE OIL COMPANY		8. FARM OR LEASE NAME Mustang Unit
3. ADDRESS OF OPERATOR 2000 University Clu	b Bldg.,Salt Lake City,UT 84	9. WELL NO. 111 No. 3
4. LOCATION OF WELL (Report location of See also space 17 below.) At surface	early and in accordance with any State requirements.*	Wildcat 11. SEC., T., B., M., OR BLK. AND
610' FWL & 1675' FS	L (SW NW) Sec. 26, T.36S.,R.2	Sec. 26, T36S, R23E, SLB&M
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
API # 43-037-30894	GL-6108	San Juan Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

ALTERING CASING

TEST WATER SHUT-OFF PULL OR ALTER CASING
FRACTURE TREAT MULTIPLE COMPLETE
SHOOT OR ACIDIZE ABANDON*
REPAIR WELL CHANGE PLANS
(Other)

SHOOTING OR ACIDIZING

(Other) Spud & set surface casing X

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded well 6-23-83 w/Four Corners Rig # 8.

Drilled 12%" hole to 2250'. Ran 56 jts 9-5/8" 36# K-55 casing to 2250'.

Cemented w/555 sx 65/35 Pozmix and 300 sx Class "B". Circulated 150 sx to surface. Install wellhead and BOP. Test BOP, Kelly Cock and Choke Manifold to 3000 psi and Hydril to 1500 psi.

Drill ahead w/8-3/4" bit.

JUN 30 1983

DIVISION OF GAS & MILLING

					ra. De alama		
18. I h	GNED Mulicul Anderson	TITLE _	Staff	Engineer		DATE	6-28-83
(T)	his space for Federal or State office use)						
	PROVED BY	TITLE				DATE	

UNITED STATES DEPARTMENT OF THE INTERI **GEOLOGICAL SURVEY** (FORM 9-329) (2/76)

42-RO 356 OMB

MONTHLY REP	ORT
OF	
OPERATION	S

Lease No	U-20024	<u></u>	<u> </u>	19
Communitizati	on Agree, at No)		
Field Name	Unde	esignated		
Unit Name	Und Mustang Un	it	·	
Participating A	rea			
County	San Juan	State _	<u>Utah</u>	
Operator	SKYLINE OIL	COMPANY		
☐ Amended R				

The following is a correct report of operations and production (including status of all unplugged wells) for the month _, 19_83_

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and for-

Well No.	Sec. & % of %	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
3	SW NW	36S	23E	DRG	None	None	None	None	Spudded 6-23-8 Drilling @ 4410'
	Sec.26								4410'
								•	
			1						
		•							

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	None	xxxxxxxxxxxxx	xxxxxxxxxxxxx
	None	None	<u>None</u>
*Produced	None	None	XXXXXXXXXXXXXXXX
*Sold	None	xxxxxxxxxxxxxx	XXXXXXXXXXXXXXXX
*Spilled or Lost	XXXXXXXXXXXXXXX	None	XXXXXXXXXXXXXXXX
*Flared or Vented *Used on Lease	None	None	XXXXXXXXXXXXXXX
*Injected	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Surface Pits	None	None	None
*Other (Identify) *On hand, End of Month	None	xxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	/	2000 University	
Authorized Signature: 711, W. And		_	
Title: Staff Engineer		Page of	1 - U tah 84111

Form 9-331 UNITED STATES SUBMIT IN TRIPLICE E* (May 1963) (Other instructions on re-	Form approved. Budget Bureau No. 42-R1424.
DEPARTMENT OF THE INTERIOR (Other instructions on re-	5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY	U-20024
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	
1.	7. UNIT AGREEMENT NAME
OIL GAS X OTHER	MUSTANG
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
SKYLINE OIL COMPANY	MUSTANG UNIT
3. ADDRESS OF OPERATOR	9. WELL NO.
2000 University Club Bldg., Salt Lake City, Utah 84111	3
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)	10. FIELD AND POOL, OR WILDCAT
At surface	Wildcat
610' FWL & 1675'FNL (SW NW) Sec. 26, T. 36 S., R. 23 E.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
	Sec. 26, T. 36 S.,
	R. 23 F. S. I. M. 12. COUNTY OR PARISH 13. STATE
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	
API #43-037-30894 GL-6108'	San Juan Utah
16. Check Appropriate Box To Indicate Nature of Notice, Report, or C	ther Data
NOTICE OF INTENTION TO:	ENT REPORT OF:
THE SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
TEST WAILE SHOTTER TO THE ADMENTS	ALTERING CASING
PRACTICES TABLET	ABANDONMENT*
SHOOT OF ACTIONS (Other) Setting T	roduction csg. X
(Nore: Report results	of multiple completion on Well etion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical	including estimated date of starting any l depths for all markers and zones perti-
nent to this work.) *	
Drilled 8-3/4" hole to 6137'. POOH for Core #1. C	ut Core #1 6137'-6200
Drilled hole to 6231'. Ran DST #1. 6115'-6231'.	Drilled 8-3/4" hole

Drilled hole to 6231'. Ran DST #1. 6115'-6231'. Drilled 8-3/4" hole to 6425'. Cut Core #2 6425'-6465'. Drilled 8-3/4" hole to T.D. of 6505'. Ran GR-FDC-CNL, GR-DIL-SFL, GR-BHC Sonic, GR-Dipmeter logs. Ran 165 jts. 5½" 15.5# & 17# K-55 LT&C casing. Landed casing @ 6503'. Cemented w/ 465 sx. Class "B" 50/50 Poz followed by 350 sx. Self-Stress. Displaced w/ 151 BW. Plug down 12:30 p.m. 7-13-83. Set sign.

Released rig 7-13-83.

JUL 28 1983

						186	SUN UF S & MINI	
	certify that the foregoing is true and co	TITLE_	Staff	Engineer		DATE _	July 2	7, 1983
	ace for Federal or State office use)					DATE		
APPROV	IONS OF APPROVAL, IF ANY:	TITLE _			······	DAIL		

Form 9-331 (May 1963)

WELL .

UNI) STATES SUBMIT IN TRIPLI (Other instructions verse side) GEOLOGICAL SURVEY

Form approved. Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-	200	124		
INDIAN.	ALLOS	TEE OR	TRIBE	NAME

SUNDRY	NOTICES	AND	REPORTS	ON	WELLS

	2011211	, , , , , , , , , , , , , , , , , , , ,			
(Do not	use this form Use	for proposals to	drill or to deeper FOR PERMIT—"	or plug back to a for such proposals.)	different reservoir.

not use	this form fo	r proposals to d APPLICATION F	rill or to deepen OR PERMIT—" i	or plug back to a for such proposals.)	different reservoir.
		·	· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

GYA KX OTHER

2. NAME OF OPERATOR SKYLINE OIL COMPANY

3. ADDRESS OF OPERATOR 2000 University Club Building, S.L.C., Utah 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)

610' FWL & 1675' FNL (SWNW) Sec. 26, T.36 S.,

7. UNIT AGREEMENT NAME MUSTANG

8. FARM OR LEASE MAME MUSTANG UNIT

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcat 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

Sec. 26, T. 36 S., R. 23 E.

12. COUNTY OR PARISH | 13. STATE Utah San Juan

14. PERMIT NO. API #43-037-30894

PRACTURE TREAT

SHOOT OR ACIDIZE REPAIR WELL

GL-6108'

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO: PULL OR ALTER CASING TEST WATER SHUT-OFF MULTIPLE COMPLETE ABANDON* CHANGE PLANS

WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING X

SUBSEQUENT REPORT OF: REPAIRING WELL ALTERING CASING ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.).

Move in Monument Well Service 7-22-83. Clean out well bore to 6435'. Run GR-CBL-CCL 6435' - 3700'. Perforate 5½" casing 6196' - 6208' RIH and set treating pkr @ 6145'. Acidize well w/1600 gals. acid. Rig up and swab well in. Flow test well. Ran BHP bombs for buildup 7-29-83. Kill well w/2% KCl water. POOH w/treating pkr. RIH w/ Pull BHP bombs. production pkr. Set pkr @ 6147'. RU and swab well in. Flow test well. Shut well in 8-5-83. Waiting on pipeline connection.

AUG 08 1983

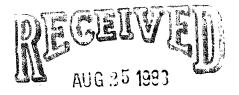
n	IV	IS	00	05
U	* *	9.80	3.6	

S. I hereby certify that the foregoing is true and correct SIGNED Muhael A fallism	TITLE	Oll Staff Engineer	_, GAS & MINING BATE 8-5-83	
(This space for Federal or State office use)				=
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE		DATE	

SKYLINE **○** Oil Company

A TEXAS EASTERN COMPANY

August 24, 1983



State of Utah Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, Utah 84114

DIVISION OF OIL, GAS & MINING

Re Mustang Unit # 3 Well Sec. 26, T. 36 S., R. 23 E., SLM San Juan County, Utah

Gentlemen:

Attached please find in duplicate Well Completion Report and logs for the subject well with attachments.

Please note that we have stamped these as being CONFIDENTIAL and, according to rules and regulations of the Division of Oil, Gas and Mining, we request that this information be held Confidential for the mandatory six (6) months.

Sincerely,

Michael D. Anderson

Staff Engineer

Enclosures

0	OIVISIO	V OF O	L, GAS, A	ND MINI	NG					5. LEASE D	ESIGNAT	TION AND SERIAL NO	
											<u> 2002</u>	4 TIEE OR TRIBE NAME	
WELL CO		ION (OR RECO	MPLET	NOI	REPORT	AN	ID LO	G *	O. IF INDIA	N, ALLU	TIBE OR TRIBE NAME	
ia. TYPE OF WEL	L:	OIL WELL	GAS WELL	X ,	ORY	Other				7. UNIT AGE	REEMEN	T NAME	
b. TYPE OF COM.	PLETION:	: Deep-	PLUG	DIF	E —						MUSTANG		
WELL A	OVER L	EN	BACK		svr.	Other				S. FARM OR		NAME ING UNIT	
2. NAME OF OPERAT		YLINE	OIL CO	MPANY		Salar Salar				9. WELL NO			
3. ADDRESS OF OPE		L C1.	-L D1da	C Si	T C	II+ah	Q /, 1	11			3		
2000 Univ										10. FIELD AND POOL, OR WILDCAT			
At surface 6]	LO' FV	VL &	1675' F	NL (S	W NW) Sec.	26,	T.36	5 S.	11. SEC., T., OR AREA	Vild R., M.,	Cat OR BLOCK AND SURVEY	
At top prod. int	erval repo	rted below	Sam	e				R. 2	23 E	. Sec	c. 2	6, T. 36 S	
At total depth	Sa	ame								R.	23	E., SLM	
				I		. API# 30894		188UED 5-3-83	 α΄	12. COUNTY OR 13. STATE PARISH			
15. DATE SPUDDED	! 16. DATE	T.D. REAC	HED 17. DAT							San Ji	uan	Utah ELEV. CASINGHEAD	
6-23-83	I	-12-8	1		3-83	18.		L-6108		RT, GR, ETC.)*		104 (est.)	
20. TOTAL DEPTH, MD	1		ACK T.D., MD &		. IF MUL	TIPLE COMPL.,		23. INT	ERVALS	ROTARY TO	<u> </u>	CABLE TOOLS	
6505'			6435'		HOW M				LLED BY	X			
24. PRODUCING INTER	VAL(S), O	F THIS CO	MPLETION—TO	P, BOTTOM,	NAME (MD AND TVD)*					25	SURVEY MADE	
Isma	ay (6196'	-6208'								Ì	No	
26. TYPE ELECTRIC A	ND OTHER	LOGS RUN									27. W	AS WELL CORED	
GR-FDC-GA	₹L, Q	R-DIL	SFP, G	R-BHC	Son	ie, GR-	Dip	omețe:	r			Yes	
28.			CAS	ING RECO	RD (Rep	ort all strings	set i	n well)					
CASING SIZE	WEIGH	T, LB./FT.	DEPTH S	ET (MD)	-	LE SIZE			MENTING			AMOUNT PULLED	
9-5/8''	-	36#		<u>50'</u>	$ 12^{\frac{1}{2}}$, <u>300 s</u>		None	
5½''	_ 15_	.5 &	17 <u>#</u> 65	03'	8	-3/4"_	46	ob sx		, 350 s		None	
	_				·				ser.	f-Stres	<u>s</u>		
29.		LII	VER RECORI)	,	1		30.		TUBING REC	ORD		
SIZE	TOP (MI) B(TTOM (MD)	SACKS C	EMENT*	SCREEN (MI	p)	SIZE		DEPTH SET (MD)		PACKER SET (MD)	
								2-3/8	8	6147	·	6147'	
31. PERFORATION REC	ORD (Inter	rval. size e	ind number)			1 00		TD GTTOM	<u> </u>				
		-	,			32.			,	URE, CEMEN			
6196	5 '- 62	08'	2540	" ho1	es	6196-			}	0 gals.	gals. 15% HC1		
						010	<u> </u>	<u> </u>		8			
33.*					DROI	DUCTION			l				
ATE FIRST PRODUCTI	ON	PRODUCT	ION METHOD (Flowing, g		umping—size c	and t	ype of pur	np)	WELL	STATUS	(Producing or	
7-23-83		F1	owing							shu	it-in) 🗸	Shut in	
PATE OF TEST	HOURS T		CHOKE SIZE		N. FOR PERIOD	OIL—BÉL.	,	GAS-M		WATER-BBI		GAS-OIL RATIO	
8-8-83	2		23/64		>	98.		2	450 			24,898	
788		cker	24-HOUR RAT	ort—	8.4	2	мс я . 45(0	WATER-	BBL. 	OIL GI	49.7	
34. disposition of ca		ised for fue	l, vented, etc.)				·		Terry			
5. LIST OF ATTACHM	AENTS							-		1			
DST rep											 -		
6. I hereby certify			// /							all available r		0/ 00	
signed M	May	VV.	Andle.	20 TI	TLE	Staff	Er	ngine	er	DATE	<u>8-</u>	24-83	

NSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and lypes of lands and leases to either a Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal of or depth measurements given in other spaces on this form and in any attachments. If there are no applicable State requirements, locations on Federal office for separate production from more than one interval zone (multiple completion), so state in item 24, show the producing interval, or intervals, top (s), bottom of anales) if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval.

Hem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing too. this form for each interval to be separately produced, showning the additional data pertured. (See instruction for items 22 and 24 above.)

i in	Electric Control of the Control of t	TRUE VERT. DEPTH					``					
GEOLOGIC MARKERS	TOP	MEAS. DEPTH	1022'	1232'	1430'	2176'	2912'	5000	6109,	62381	63591	
38. GEOLOG		NAM	Bluff	Entrada	Navajo	Chinle	Moenkopi	Hermosa	Ismay (Upper)	Ismay (Lower)	Desert Creek	
TS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING PEN, PLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.		Core #1 - See attached core description	Core #2 - See attached core description	DST #1:	3142 psi	ISIP 2649 psi 60 min. FFP 28/-392 psi 120 min.	2649 psi 240	bs	Flowed GTS @ maximum 657 MCFD. Recovered 1568' HGCM in drill pipe.	Sampler contained 150 cc oil, 50 cc mud, and 2.54 CF gas @ 325 psi.	
MARY OF POROUS ZONES: 8HOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWIN	BOTTOM		6200	6465	6231'							
DUS ZONES: TANT ZONES OF POP TESTED, CUSHION	TOP		6137	6425'	6115							
37. SUMMARY OF POROUS ZONES SHOW ALL IMPORTANT ZONES DEPTH INTERVAL TESTED, CUS!	FORMATION		Ismay	Desert Creek	Ismay							

CONFIDENTIAL

SKYLINE OIL CO.

Mustang Unit # 3

Sec. 26, T 36 S - R 23 E

San Juan Co., Utah

SKYLINE OIL CO.

Mustang Unit # 3

Sec. 26, T 36 S - R 23 E

San Juan Co., Utah

GENERAL OPERATIONS:

The drilling of this well was undertaken using rotary tools. Both air and a fresh water chemically treated gel mud were used as the circulating medium.

In order to protect fresh water aquifers and to insure against drilling problems, a protective string of 9 5/8" casing was set at 2249' which is in the upper portion of the Chinle shale. This is sufficient depth to cover all recognized fresh water aquifers in the area.

While drilling with air, sufficient water was encountered to necessitate a conversion to mud as a circulating medium somewhat sooner than anticipated. The drilling objectives were achieved with a minimal amount of operational problems. At no time did situations arise that constituted a danger to either the drilling equipment or the drilling personnel involved in the operation.

Ten foot samples were caught from 4500' to total depth.

EVALUATION:

A full time mud logging unit was utilized from a depth of 4500' to total depth. This unit was equipped with both a hot wire and a chromatograph for hydrocarbon analysis.

The well was under constant geological supervision

from 4500' to the total depth of 6503'.

All samples were caught and microscopically examined while drilling was in progress.

Several shows were encountered, but only one of sufficient quality to warrant a drill stem test. A good gas show with fair to good porosity was observed in the core from the upper Ismay formation. This being one of our major objectives, a test was conducted over the interval 6115 - 6231'.

This test yielded a flow of gas in excess of 500mcf per day. Pipe recovery was 1568' of highly gas and slightly oil cut mud.

Field evaluation of pressures indicated little or no depletion of the reservoir after this rather lengthy test. (see DST # 1 for details)

The core from the upper Ismay displayed two principal zones of porosity with a total thickness of 32'.

The upper zone from 6150 to 6170 was a limestone with fair to good pinpoint and vugular porosity. Oil staining was spotty. Permeability ranged from fair to good and this zone was judged to be primarily productive of gas.

Perhaps the most significant fact regarding this zone was the abundance of fossils with the indicated presence of abundant Ivanovia (?). This lends substantial support to the concept of a reefal bank ormound which was the original foundation of the prospect.

The lower zone of porosity from 6196 - 6208' was

comprised of a dolomitic limestone. Fair to good intercrystalline and vugular porosity was observed. Oil stain was uniform throughout the zone. Permeability is present, but may be somewhat inferior to that in the upper zone.

Because of the much heavier and uniform staining, it is thought that this zone may prove to be a more viable oil reservoir than the upper zone.

A second core from 6425 - 6465' was intended to evaluate the pay zone in the lower Desert Creek formation. Due to a thinning of the anhydrite, this objective was not accomplished. This core yielded no viable shows.

Upon reaching total depth, the following sequence of logs were run by Schlumberger:

DIL - SFL w GR	2249 - 6503
BHC Sonic w GR & Caliper	2249 - 6503
CNL - FDC w GR & Caliper	2249 - 6503
Dinmeter	6000 - 6500

Evaluation of these logs indicated the Ismay horizon to be productive. The Desert Creek horizon appears to have thinned and to have suffered a loss of porosity.

CONCLUSIONS:

This well is indicated to have economic potential in the Ismay horizon. Production casing has now been run and we await the outcome of a completion attempt and production tests.

RECOMMENDATIONS:

GEOLOGICAL REVIEW

Further geological and geophysical studies should be made in an attempt to further define this now established reservoir.

It may be advisable to limit the initial completion attempt to the lower zone of porosity at 6196 - 6208. The chances for achieving production of oil from this horizon appear to be better than from the upper zone of prorsity.

Reason for a limited completion is economic. There is a ready market for oil production, but there are no pipeline facilities available for delivery of gas into a market that is weak at the present time.

True delineation of this reservoir will, of course await the outcome of addition drilling.

GEOLOGICAL REVIEW

IMPORTANT TOPS:

AGE	FORMATION	<u>DEPTH</u>	DATUM
Jurassic	Bluff ss	1022	+5098
•	Summerville	1191	+4929
H	Entrada	1232	+4888
	Navajo	1430	+4690
n	Kayenta	1728	+4392
n	Wingate	1884	+4236
Triassic	Chinle	2176	+3944
•	Shinarump	2813	+3307
Permian	Moenkopi	2912	+3208
er en	Cutler	3088	+3032
Pennsylvanian	Hermosa	5000	+1120
i 🕶 o 💮 e e e e e e e e e e e e e e e e e e	Ismay (upper)	6109	+ 11
	Ismay (lower)	6238	- 163
•	Desert Creek	6359	- 239
TOTAL DEPTH	**	6503	- 383

FORMATION TESTING SERVICE REPORT

MUSTANG

WELL NO.

No.

CONFIDENTIAL





HUSTANG LEASE NAME

WELL NO.

TESTED INTERVAL

1 26-365-23E

FIELD PREB

NUN NUS

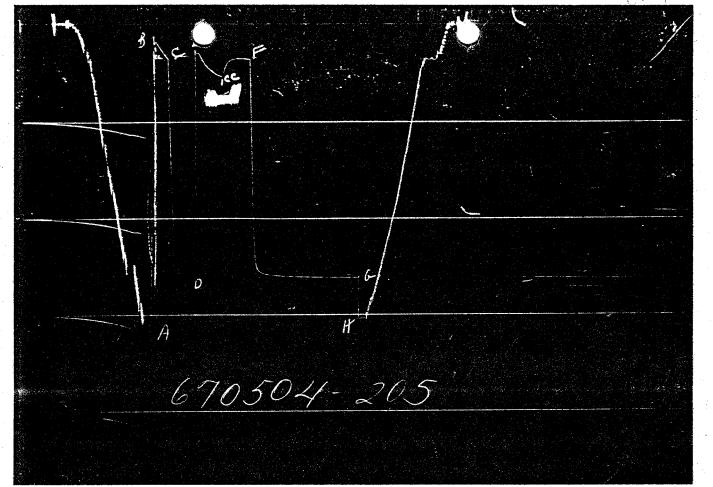
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LEASE OWNER/COMPANY NAME

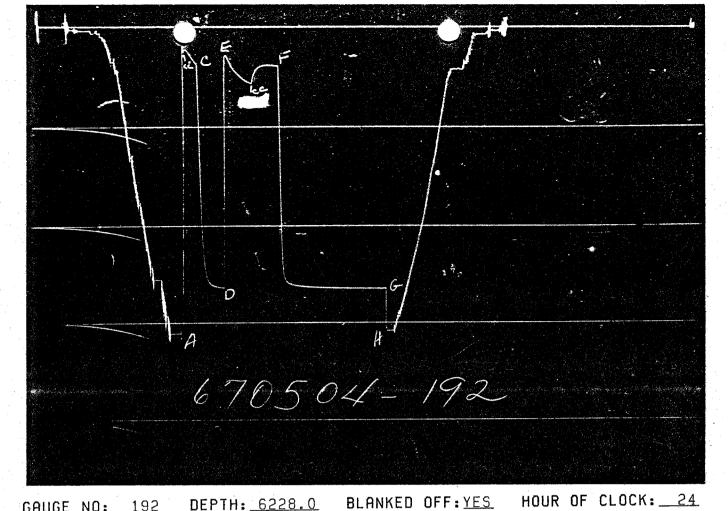
TICKET NO. 67050400 15-JUL-83 VERNAL

FORMATION TESTING SERVICE REPORT



GAUGE NO: 205 DEPTH: 6092.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRE	SSURE	TI	ME	TYPE
10	DESCRIT TION	REPORTED	CALCULATED	REPORTED	CALCULATED	
А	INITIAL HYDROSTATIC	3093	3053.8			
В	INITIAL FIRST FLOW	110	120.5	31.0	31.4	F
С	FINAL FIRST FLOW	357	354.4	31.0	V1. 1	
С	INITIAL FIRST CLOSED-IN	357	354.4	60.0	60.2	C
D	FINAL FIRST CLOSED-IN	2608	2617.3	00.0	00.L	
Е	INITIAL SECOND FLOW	275	288.0	120.0	119.9	F
F	FINAL SECOND FLOW	357	360.9	120.0	110.0	
F	INITIAL SECOND CLOSED-IN	357	360.9	240 0	239.5	С
G	FINAL SECOND CLOSED-IN	2608	2622.9	240.0		
Н	FINAL HYDROSTATIC	3038	3043.3			



UHUU	E NU: 192 DEPIN: 6220.0	DETITAL	LU UII . II			
ID	DESCRIPTION	PRES	SSURE CALCULATED	T I REPORTED	ME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	3142	3122.0			
B	INITIAL FIRST FLOW	189	186.4	31.0	31.4	F
С	FINAL FIRST FLOW	378	377.6	31.0		
С	INITIAL FIRST CLOSED-IN	378	377.6	60.0	60.2	С
D	FINAL FIRST CLOSED-IN	2649	2647.0	00.0		
E	INITIAL SECOND FLOW	284	288.8	120.0	119.9	F
F	FINAL SECOND FLOW	392	393.6	120.0	110.0	
F	INITIAL SECOND CLOSED-IN	392	393.6	240.0	239.5	С
G	FINAL SECOND CLOSED-IN	2649	2655.7	240.0		
Н	FINAL HYDROSTATIC	3087	3093.8			

EQUIPMENT & HOLE DATA	TICKET NUMBER: 67050400
FORMATION TESTED: UPPER ISMAY NET PAY (ft): 30.0	DATE: <u>7-8-83</u> TEST NO: <u>1</u>
NET PAY (ft): 30.0 GROSS TESTED FOOTAGE: 116.0	TYPE DST: OPEN HOLE
ALL DEPTHS MEASURED FROM: <u>KELLY BUSHING</u>	TIPE USI: UPEN RULE
CASING PERFS. (ft):	HALLIBURTON CAMP:
HOLE OR CASING SIZE (in): 8.750	VERNAL
ELEVATION (ft): 6108	
TOTAL DEPTH (ft):6231.0	TESTER: R. RIPPLE
PACKER DEPTH(S) (ft): 6107, 6115	- TLJILN:
FINAL SURFACE CHOKE (tn):0.500	
BOTTOM HOLE CHOKE (in): 0.750	WITNESS: BILL LATCH
MUD WEIGHT (lb/gal):9.70	
MUD VISCOSITY (sec): 39	DRILLING CONTRACTOR:
ESTIMATED HOLE TEMP. (°F):	FOUR CORNERS DRILLING COMPANY #8
ACTUAL HOLE TEMP. (°F): <u>136</u> ◎ <u>6227.0</u> ft	
FLUID PROPERTIES FOR	SAMPLER DATA
RECOVERED MUD & WATER	
SOURCE RESISTIVITY CHLORIDES	Psig AT SURFACE: 325
MUD PIT 1.630 @ 50 °F 2900 ppm	cu.ft. OF GAS: 2.54
	cc OF OIL:150
	cc OF WATER:O
	cc OF MUD:50
	TOTAL LIQUID cc: 200
HYDROCARBON PROPERTIES	CUSHION DATA
OIL GRAVITY (°API): @°F	TYPE AMOUNT WEIGHT
GAS/OIL RATIO (cu.ft. per bbl):2688	
GAS GRAVITY:	
RECOVERED:	₩ <u>Ö</u> ₩
1568 FEET OF HIGHLY GAS CUT	MUD 문헌
	MERSURED FROM
	그리는 그는 그는 그는 그를 가지 모든 모든 그를 모든

REMARKS:

REPORTED ELEVATION IS AT GROUND LEVEL.

CLOCK NO: 11654 HOUR: 24



GAUGE NO: 205

DEPTH: 6092.0

REF MINUTES PRESSURE ΔP t x Δt t + Δt l o g t + Δt	$\frac{t \times \Delta t}{t + \Delta t} \log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW 6 25.0 432.8 30.9 7 30.0 455.4 22.5 B 1 0.0 120.5 8 35.0 476.8 21.4 2 2.0 206.6 86.1 9 40.0 495.9 19.1 1 3 3.3 208.9 2.3 10 45.0 510.0 14.1 4 4.0 182.3 -26.6 11 50.0 522.8 12.8 5 6.0 186.4 4.1 12 55.0 531.6 8.7 6 8.0 200.7 14.3 13.6 12 55.0 539.2 7.7 7 10.0 214.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
FIRST FLOW 6 25.0 432.8 30.9 7 30.0 455.4 22.5 B 1 0.0 120.5 8 35.0 476.8 21.4 2 2.0 206.6 86.1 9 40.0 495.9 19.1 1 3 3.3 208.9 2.3 10 45.0 510.0 14.1 4 4.0 182.3 -26.6 11 50.0 522.8 12.8 5 6.0 186.4 4.1 12 55.0 531.6 8.7 6 8.0 200.7 14.3 13.6 12 55.0 539.2 7.7 7 10.0 214.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
B 1 0.0 120.5 8 35.0 476.8 21.4 2 2.0 206.6 86.1 9 40.0 495.9 19.1 1 3 3.3 208.9 2.3 10 45.0 510.0 14.1 4 4.0 182.3 -26.6 11 50.0 522.8 12.8 5 6.0 186.4 4.1 12 55.0 531.6 8.7 6 8.0 200.7 14.3 13 60.0 539.2 7.7 7 10.0 214.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
B 1 0.0 120.5 8 35.0 476.8 21.4 2 2.0 206.6 86.1 9 40.0 495.9 19.1 1 3 3.3 208.9 2.3 10 45.0 510.0 14.1 4 4.0 182.3 -26.6 11 50.0 522.8 12.8 5 6.0 186.4 4.1 12 55.0 531.6 8.7 6 8.0 200.7 14.3 13 60.0 539.2 7.7 7 10.0 214.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
2 2.0 206.6 86.1 9 40.0 495.9 19.1 1 3 3.3 208.9 2.3 10 45.0 510.0 14.1 4 4.0 182.3 -26.6 11 50.0 522.8 12.8 5 6.0 186.4 4.1 12 55.0 531.6 8.7 6 8.0 200.7 14.3 13 60.0 539.2 7.7 7 10.0 214.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
1 3 3.3 208.9 2.3 10 45.0 510.0 14.1 4 4.0 182.3 -26.6 11 50.0 522.8 12.8 5 6.0 186.4 4.1 12 55.0 531.6 8.7 6 8.0 200.7 14.3 13 60.0 539.2 7.7 7 10.0 214.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
4 4.0 182.3 -26.6 11 50.0 522.8 12.8 5 6.0 186.4 4.1 12 55.0 531.6 8.7 6 8.0 200.7 14.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
5 6.0 186.4 4.1 12 55.0 531.6 8.7 6 8.0 200.7 14.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
6 8.0 200.7 14.3	
7 10.0 214.3 13.6 14 65.0 448.6 -90.6 8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
8 12.0 228.3 14.0 15 70.0 402.7 -45.9	
9 14.0 242.7 14.4 16 75.0 377.3 -25.4	
10 16.0 256.3 13.6 17 80.0 364.1 -13.2	
11 18.0 270.1 13.7 18 85.0 358.1 -6.0	
12 20.0 283.8 13.7 19 90.0 352.6 -5.5	
13 22.0 298.2 14.4 20 95.0 352.6 0. 0	
14 24.0 310.0 11.8 21 100.0 352.3 -0.3	
15 26.0 324.5 14.4 22 105.0 353.4 1.1	
16 28.0 335.6 11.1 23 110.0 355.2 1.8	
17 30.0 347.1 11.5 24 115.0 357.8 2.6	
C 18 31.4 354.4 7.3 F 25 119.9 360.9 3.0	
FIRST CLOSED-IN SECOND CLOSED-IN	
C 1 0.0 354.4 F 1 0.0 360.9	
2 1.0 695.5 341.1 1.0 1.515 2 1.0 651.6 290.8	1.0 2.166
3 2.0 915.8 561.5 1.9 1.221 3 2.0 991.4 630.5	1.9 1.893
4 3.0 1068.8 714.4 2.7 1.060 4 3.0 1320.8 960.0	2.9 1.71
5 4.0 1256.2 901.8 3.6 0.942 5 4.0 1542.6 1181.7	3.9 1.59
6 5.0 1408.9 1054.5 4.3 0.862 6 5.0 1738.0 1377.2	4.9 1.493
7 6.0 1559.1 1204.7 5.0 0.795 7 6.0 1959.8 1598.9	5.8 1.416
8 7.0 1709.8 1355.4 5.7 0.738 8 7.0 2132.9 1772.1	6.7 1.359
9 8.0 1826.5 1472.1 6.4 0.692 9 8.0 2259.9 1899.1	7.6 1.300
2 10 8.8 1902.5 1548.1 6.9 0.661 10 9.0 2343.7 1982.8	8.5 1.25
2 11 9.7 1985.9 1631.5 7.4 0.626 11 10.0 2415.3 2054.4	9.3 1.210
2 12 10.8 2066.3 1711.9 8.0 0.592 12 12.0 2487.9 2127.0	11.1 1.13
2 13 22.0 2516.6 2162.2 12.9 0.385 13 14.0 2521.5 2160.6	12.8 1.07
[2] 14 30.7 2590.4 2236.0 15.5 0.306 14 16.0 2542.5 2181.7	14.5 1.018
15 35.0 2602.5 2248.1 16.5 0.278 15 18.0 2554.6 2193.7	16.1 0.97
16 40.0 2608.2 2253.8 17.6 0.252 16 20.0 2563.3 2202.4	17.7 0.93
17 45.0 2611.1 2256.7 18.5 0.230 17 22.0 2569.9 2209.1	19.2 0.89
18 50.0 2614.5 2260.1 19.3 0.212 18 24.0 2574.4 2213.5	20.7 0.86
19 55.0 2616.8 2262.4 20.0 0.196 19 26.0 2578.4 2217.5	22.2 0.83
D 20 60.2 2617.3 2262.9 20.6 0.182 20 28.0 2581.3 2220.5	23.6 0.80
21 30.0 2584.6 2223.8	25.0 0.782
22 35.0 2589.6 2228.8	28.4 0.72
SECOND FLOW 23 40.0 2594.5 2233.6	31.6 0.679
24 45.0 2597.9 2237.1	34.7 0.640
E 1 0.0 238.0 25 50.0 2601.1 2240.3	37.6 0.60
2 5.0 295.3 7.3 26 55.0 2603.3 2242.5	40.4 0.574
3 10.0 317.7 22.4 27 60.0 2604.7 2243.9	43.0 0.54
4 15.0 362.9 45.2 28 70.0 2608.3 2247.5	47.9 0.500
5 20.0 401.9 39.0 29 80.0 2610.4 2249.5	52.3 0.461
2 20.0 201.0 2010.4 EE43.0	

LEGEND:

Thoke change REMARKS:

2 STAIR STEP

CLOCK NO: 11654 HOUR: 24



GAUGE NO: 205

DEPTH: 6092.0

REF	MINUTES	PRESSURE	ΔP	<u>t×∆t</u> t+∆t	log <u>t+Δt</u> Δt	IL
SEC	OND CLOSED-	IN - CONTIN	IVED			
30	90.0	2612.3	2251.5	56.4	0.428	
31	100.0	2614.3	2253.4	60.2		Ш
32	110.0	2615.5	2254.7	63.7	0.376	П
33	120.0	2617.2	2256.3	66.9	0.354	П
34	135.0	2618.3	2257.4	71.3		11
35	150.0	2619.3	2258.4	75.3		Ш
36	165.0	2620.6	2259.8	78.9	0.283	П
37	180.0	2621.5	2260.6	82.2	0.265	Ш
38	195.0	2622.3	2261.4	85.2	0.249	Ш
39	210.0	2623.3	2262.4	87.9	0.236	
40	225.0	2623.4	2262.6	90.5	0.223	Ш
G 41	239.5	2622.9	2262.0	92.7	0.213	

REF	MINUTES	PRESSURE	ΔР	<u>t×Δt</u> t+Δt	$\log \frac{t + \Delta t}{\Delta t}$
<u></u>			J		
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LEGEND:

THORE CHANGE
REMARKS:

2 STAIR STEP

CLOCK NO: 4090 HOUR: 24



GAUGE NO: 192

DEPTH: 6228.0

Γ	REI	-	MINUTES	PRESSURE	ΔР	<u>t×∆t</u> t+∆t	log <u>t+∆t</u>	RE	F	MINUTES	PRESSURE	ΔР	<u>t×∆t</u> t+∆t	$log \frac{t + \Delta t}{\Delta t}$
r										 				
				FIRST	FLOW						SECOND	IFLOW		
	В	, 1 ,	0.0	186.4				E	1	0.0	288.8			
		2	2.0	232.4	46.1				2	5.0	289.6	0.8		
1 [3	3.3	253.6	21.2				3	10.0		42.4		
		4	4.0	241.8	-11.9				4	15.0	384.5		Notice of	
		5	6.0	230.5	-11.2				5	20.0	423.9	39.5		
ı		6	8.0	231.5	0.9				6	25.0	451.4	27.4		
		7	10.0	239.2	7.7				7	30.0	476.4	25.0		
		8	12.0	251.1	11.9			1	8	35.0	498.6	22.3		
		9	14.0	264.7					9	40.0	519.4	20.8		
		10	16.0	277.6	12.8				10	45.0	535.7	16.2		
	11.	11	18.0	291.1	13.5				11.	50.0	548.1	12.5		
		12	20.0	303.5	12.4				12	55.0	558.6	10.5		
		13	22.0	317.6	14.1				13	60.0	568.0	9.4		
		14	24.0	331.1	13.5				14	65.0	490.5	-77.4		
		15	26.0	343.8	12.7				15	70.0	439.9	-50.7		
		16	28.0	356.8	13.0				16	75.0	415.3	-24.6		
		17	30.0	369.5	12.7			1	17	80.0	399.7	-15.5	* * * * * * * * * * * * * * * * * * * *	1 to
	C	18	31.4	377.6	8.1				18	85.0	391.9	-7.8		
									19	90.0	386.5	-5.4		
				ADOT O	0055 1	k t			50	95.0	385.7	-0.8		
			- F	IRST CL	-OSED-1	N		1	21	100.0	385.7	0.0		
	_								55	105.0	386.9	1.2		I
-	C	1	0.0	377.6					23	110.0	388.2	1.4		l
		2	1.0	594.4	216.8	1.0	1.494	_	24	115.0	390.5	2.3		
		3	2.0	802.0	424.4	1.9	1.224	F	25	119.9	393.6	3.1		
		4	3.0	990.3	612.8	2.7	1.063							
		- 5	4.0	1140.3	762.7	3.5	0.948			C.	COND C	LOCED I	N.	1
		- 6	5.0	1309.5	931.9	4.3	0.862) i	COND C	FO2ED-1	, IV	
-		. 7	6.0	1467.2	1089.6	5.1	0.793	_						
		. 8	7.0	1598.0	1220.4	5.7	0.740	F	. 1	0.0		005 5	4.0	2.165
		9	8.0	1717.3	1339.7	6.4	0.692		5	1.0	699.2	305.5	1.0	
- 1		10	9.0	1847.3	1469.7	7.0	0.652		3	2.0	968.8	575.1	1.9	
-		11	10.0	1945.8	1568.2	7.6	0.615		4	3.0	1238.9	845.3		. 1
		12	12.0	2127.7	1750.1	8.7			5	4.0	1480.1	1086.5	3.9 4.8	1
		13	14.0	2264.1	1886.6	9.7	0.510		6	5.0	1722.0	1328.4 1531.2	5.7	
		14	16.0	2364.7	1987.1	10.6	0.472		7	6.0	1924.9 2097.0	1703.4		
		. 15	18.0		2065.0	11.4	0.439		8	7.0	2220.5	1826.9	7.6	
		16	20.0			12.2	0.410		9	8.0	2324.3	1930.7	8.5	
1		17	22.0	and the second second	2161.2	12.9	0.385		10	9.0	2324.3	2013.4	9.4	
		18	24.0	2567.9	2190.3	13.6	0.363		11	10.0	2407.1	2103.4	11.2	
		19	26.0		2209.6	14.2	0.344		12	12.0 14.0	2541.0	2147.3	12.8	
		20	28.0		2222.7	14.8	0.326		13	16.0	2541.0	2174.4	14.5	
		21	30.0			15.3	0.311		14	18.0	2582.4	2174.4	16.1	
		22	35.0			16.6	0.278	1 1 1	15	20.0	2591.5	2197.9	17.7	
		23	40.0	2634.7		17.6	0.252		16		2599.5	2205.8	19.2	
1		24	45.0	2639.9	2262.3	18.5	0.230		17	22.0 24.0	2605.1	2211.4	20.7	
		25	50.0		2266.4	19.3			18 19	26.0	2608.7	2215.1	22.2	
1	n	26	55.0			20.0	0.196		20	28.0	2612.6	2218.9	23.6	
l	D	27	60.2	2647.0	2269.4	20.6	0.182		21	30.0	2615.7	2222.1	25.1	
									22		2622.0	2228.3	28.4	
				· · ·	· · · · · · · · · · · · · · · · · · ·		<u> </u>		. ۲۲	33.0	LUCELU			
-														

LEGEND:

REMARKS:

HOUR: 24 CLOCK NO: 4090



GAUGE NO: 192

DEPTH: 6228.0

REF	MINUTES	PRESSURE	ΔР	<u>t×∆t</u> t+∆t	log <u>t+Δt</u>
	COND CLOSED- 40.0 45.0 50.0 55.0 60.0 70.0 100.0 110.0 1210.0 135.0 150.0 165.0 165.0 180.0	-IN - CONTIN 2626.8 2630.2 2633.1 2635.2 2637.6 2641.3 2644.0 2645.9 2648.0 2649.5 2650.7 2652.0 2652.6 2653.4 2653.7	2233.1 2236.5 2239.4 2241.6 2243.9 2247.6 2250.3 2252.3 2252.3 2255.8 2257.0 2258.4 2258.9 2259.8	31.6 34.7 37.6 40.4 43.0 47.8 52.3 56.4 60.2 63.7 66.9 71.3 75.3 78.9	0.679 0.639 0.605 0.574 0.547 0.500 0.461 0.428 0.400 0.376 0.354 0.326 0.303 0.283 0.265
3 3 4	8 195.0	2654.2 2654.9 2655.7	2260.6 2261.3 2262.1	85.2 87.9 90.5	0.236

log<u>t+Δt</u> $\frac{t \times \Delta t}{t + \Delta t}$ PRESSURE ΔΡ MINUTES REF

2.:35

1.8**93** 1.70**7** 1.894

. . : 38 ...20 . . 3 5,3 . 299 . 250 . 237 32

- 98 53 - 3.**4**

:06 :31 :26

LEGEND:

1 CHOKE CHANGE

REMARKS:

			0.D.	1.0.	LENGTH	DEPTH
1		DRILL PIPE	4.500	3.826	5707.0	
3		DRILL COLLARS	6.188	2.250	495.5	
50	0	IMPACT REVERSING SUB	6.000	2.875	1.0	6015.0
3		DRILL COLLARS	6.188	2.250	62.6	
5		CROSSOVER	6.000	2.250	1.0	
13	ō	DUAL CIP SAMPLER	5.000	0.750	7.0	
60	D	HYDROSPRING TESTER	5.000	0.750	5.0	6090.0
80		AP RUNNING CASE	5.000	3.060	4.1	6092.0
15		JAR	5.000	1.750	5.0	
16	V	VR SAFETY JOINT	5.000	1.000	2.8	
70		OPEN HOLE PACKER	7.750	1.530	5.8	6107.0
18	0	DISTRIBUTOR VALVE	5.000	1.680	2.0	
70		OPEN HOLE PACKER	7.750	1.530	5.8	6115.0
20		FLUSH JOINT ANCHOR	5.750	2.870	39.0	
5		CROSSOVER	6.000	3.313	1.3	
3		DRILL COLLARS	7.750	2.250	66.0	
5		CROSSOVER	5.750	2.250	1.0	
20		FLUSH JOINT ANCHOR	5.750	2.870	3.0	
81	D	BLANKED-OFF RUNNING CASE	5.750		4.1	6228.0
		TOTAL DEPTH				6231.0

LOG[(T+DT)/DT]

SUMMARY OF RESERVOIR PARAMETERS USING HORNER METHOD

							,
GAS GRAVITY 0.600		TEMF	PERATURI	···	13	36.0	°F
NET PAY30.0	f t	PORC	SITY		1		
RADIUS OF WELL BORE 0.365	f t	VISC	OSITY_		0.	018	ср
GAS DEVIATION FACTOR 0.844	* *			TIES AT	266	39.3	_Psig
SYSTEM COMPRESSIBILITY 0.000	48018_v	ol/vol/	/psi				·
GAUGE NUMBER	205	192					
GAUGE DEPTH	6092.0	6228.0					
FLOW AND CIP PERIOD	2	2					UNITS
FINAL FLOW PRESSURE	360.9	393.6					Psig
TOTAL FLOW TIME	151.3	151.3					min
CALC. STATIC PRESSURE P*	2636.4	2669.5					Psig
EXTRAPOLATED PRESSURE m(P*)	525.3	537.1	-				mmpsi ²
ONE CYCLE PRESSURE m(P10)	505.3	517.0					cp mmps{2
PRODUCTION RATE Q	657.5	657.5					MCFD
FLOW CAPACITY kh	31.9912	31.8753	÷				md-fit
PERMEABILITY k	1.06637	1.06251					md
SKIN FACTOR S	24.7	25.2					
DAMAGE RATIO DR	6.23	6.33					
INDICATED RATE MAX AOF ₁	672.3	674.2					MCFD
INDICATED RATE MIN AOF ₂	664.9	665.8					MCFD
THEORETICAL RATE DR×AOF ₁	4186.2	4266.9					MCFD
THEORETICAL RATE DR×AOF ₂	4139.7	4213.8					MCFD
RADIUS OF INVESTIGATION r.	56.8	56.7					ft

REMARKS:

TICKET NUMBER 67050400

SUMMARY OF RESERVOIR PARAMETERS USING HORNER METHOD

GAS GRAVITY0.600			PERATURE		
NET PAY30.0	ft	PORC	SITY	10	.0%
RADIUS OF WELL BORE 0.365	f t	VISC	COSITY	0.0	<u>18</u> cp
GAS DEVIATION FACTOR 0.844			The state of the s	T <u>2669</u>	<u>.3</u> Psig
SYSTEM COMPRESSIBILITY 0.000	48018_v	ol/vol/	'psi		
GAUGE NUMBER	205	192			
GAUGE DEPTH	6092.0	6228.0			
FLOW AND CIP PERIOD	5	2			UNITS
FINAL FLOW PRESSURE	360.9	393.6			Pstg
TOTAL FLOW TIME	151.3	151.3			min
CALC. STATIC PRESSURE P*	2636.4	2669.5			Psig
EXTRAPOLATED PRESSURE m(P*)	525.3	537.1			mmpsi ³
ONE CYCLE PRESSURE m(P10)	505.3	517.0			mmpsi ² CP
PRODUCTION RATE Q	657.5	657.5			MCFD
FLOW CAPACITY kh	31.9912	31.8753			md-f
PERMEABILITY k	1.06637	1.06251			md
SKIN FACTOR S	24.7	25.2			
DAMAGE RATIO DR	6.23	6.33			
INDICATED RATE MAX AOF1	672.3	674.2			MCFC
INDICATED RATE MIN AOF2	664.9	665.8			MCFC
THEORETICAL RATE DR×AOF ₁	4186.2	4266.9			MCFC
THEORETICAL RATE DR×ADF2	4139.7	4213.8			MCFE
RADIUS OF INVESTIGATION r.	56.8	56.7			ft

REMARKS:

NOTICE:

THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

Core Services, Inc.

CONFIDENTIAL

SKYLINE OIL COMPANY

Mustang No. 3 Well San Juan County, Utah

TTCS File No. 385

Core No.	<u>Interval</u> <u>Formation</u>	
1	6137-6200 Ismay-Desert Cr	eek
그 가득하는 그 하는 바람이다.	6200-6425 Drilled Interva	
2	6425-6465 Desert Creek	

^{• 360} Wakara Way • Sait Lake City, Utah 84108 • (801) 584-2480

^{• 920} Central Avenue • Suite #2 • Billings, Montana 59102 • (406) 256-0371

TerroTek

Core Services, Inc.

Skyline Oil Company University Club Bldg., Suite 2000 136 East South Temple Salt Lake City, Utah 84111

Attn: Mr. Mike Anderson

Subject: Core Analysis Data; Mustang No. 3 Well; San Juan

County, Utah; TTCS File No. 385

Gentlemen:

Diamond coring equipment and water base mud were used to obtain 4.3-inch diameter cores from the formations and intervals shown on the preceding page in the subject well. A representative of Terra Tek Core Services received the cores at the wellsite where they were preserved in plastic polytubing and transported to our Salt Lake City laboratory for routine full diameter analysis.

A component core gamma depicting total Gamma, Uranium, Potassium and Thorium activities recorded separately is shown on the enclosed Component Gamma Log. Permeability, porosity, grain density and fluid saturation plots are shown on the four-color TEKLOG which also includes the total gamma log.

Residual fluid removal was accomplished by the Dean-Stark low temperature solvent extraction method on full diameter samples. Porosities were determined by Boyle's law (helium) grain volumes and Archimedes (water) bulk volumes. Horizontal permeabilities to nitrogen were measured in a hassler sleeve using an orifice manometer and traveling meniscus to monitor downstream flow.

Data resulting from the above analysis is tabulated on pages one through four, followed by a summary reflecting average data by zones based on permeability, porosity and fluid saturation variations. Based on this analysis, the formation from 6146 to 6188 feet is predicted to be predominately gas and condensate productive. That from 6188 to 6196 feet is interpreted to be oil productive with a high gas-oil ratio.

The cores are temporarily being stored in our Salt Lake City laboratory awaiting your decision on petrographic work.

We sincerely appreciate this opportunity to be of service.

Jack R. Good

Yours truly,

Laboratory Director

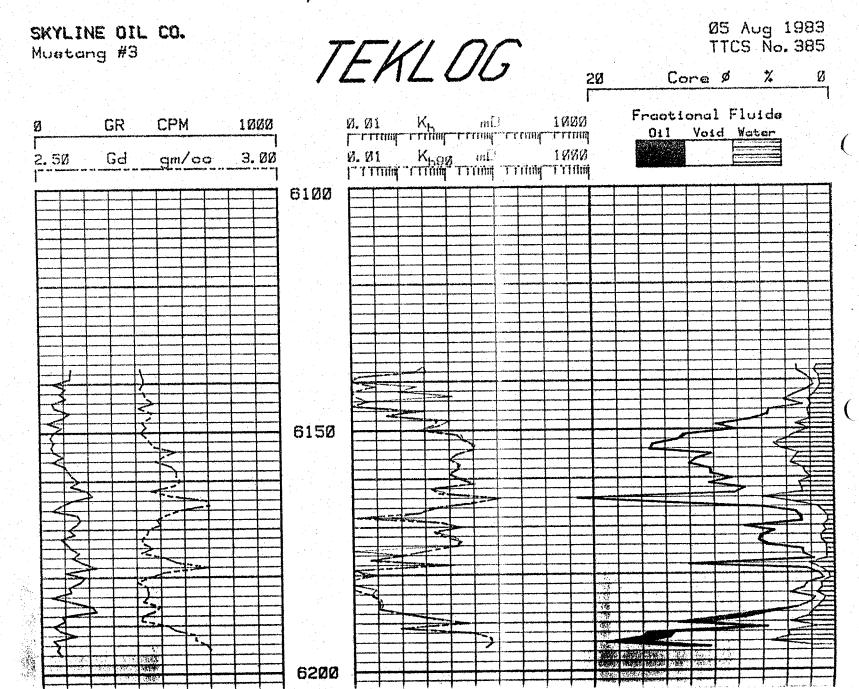
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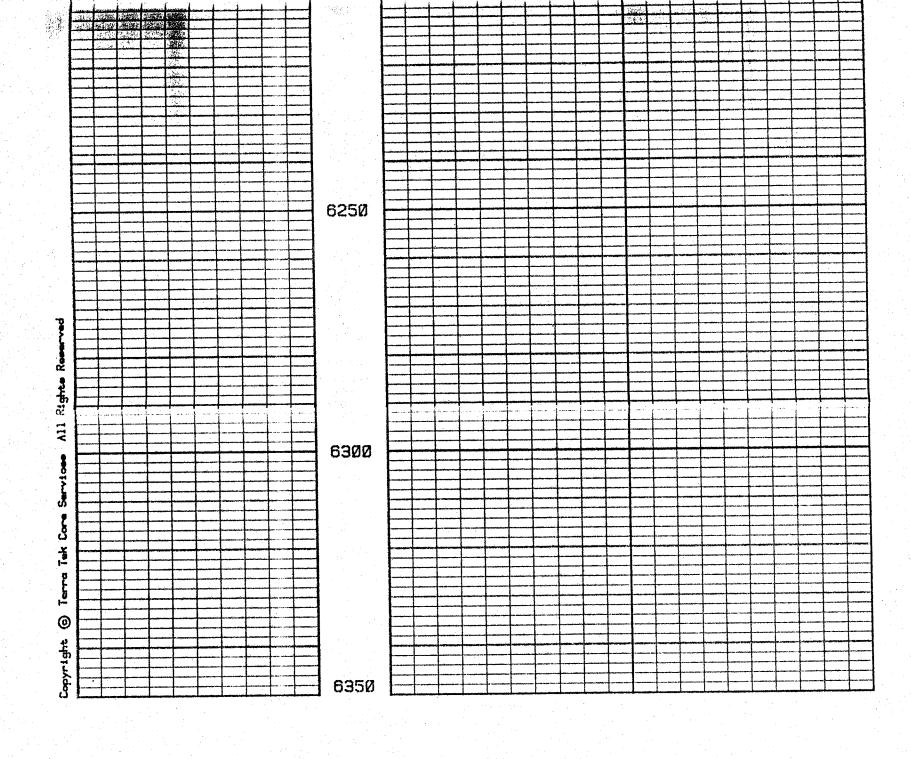
6 Copies to Addressee

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 - 920 Central Avenue
 Suite #2
 Billings, Montana 59102
 (406) 256-0371

TERRA TEK CORE SERVICES INC.

360 Wakara Way. SLC Utah 84108 (801) 584-2480





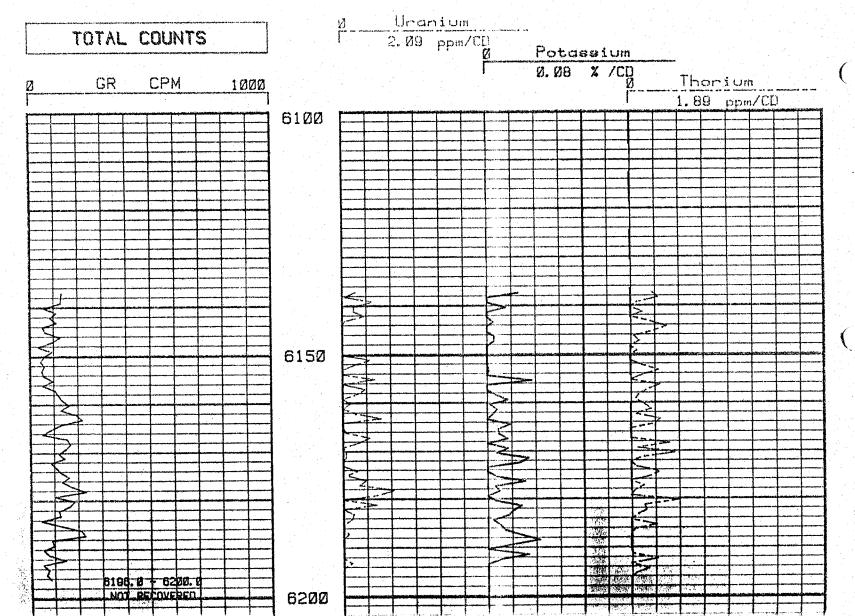
TERRA TEK CORE SERVICES INC.

360 Wakara Way, SLC Utah 84108 (801) 584-2480

SKYLINE OIL CO. Mustang #3

05 Aug 1983 TTCS No. 385

COMPONENT GAMMA LOG



University Research Park - 360 Wakara Way - Salt Lake City. Utah 84108 - (801) 584-2480 - TWX. 910-925-5284

SKYLINE OIL CO.

Well: Field:

Mustans #3 Mustana Drilling Fluid: Gel dispersed State: Counts:

Location:

Utah San Juan Sec26 Tun368 Rns23E Date: TICS File #:

05 Aug 1983

385

Elevation: 6108 sl

FULL DIAMETER DEAN-STARK ANALYSIS

Sample Depth Number (feet)	Perm Hork (md)	esbility Horz-90` (md)	Porosity (%)	Satur Oil (%)	ation H2O (%)	Grain Densits (sm/cc)	Lithology	
a a sa		2011-10 1011-10 1011-10 TEN	417444					
ISMAY - DESERT	CREEK	FORMAT	ION					
1 6137.0-38.0	0.32	0.29	3.0	0.0	44.1	2.71	Ls,vfxl,fos,sty	OVE THE STATE
2 6138.0-39.0	0.36	0.20	3.0	0.0	53.3	2.71	Ls.vfxl.fos.sts	
3 6139.0-40.0	0.01	0.01	2.3	0.0	52.0	2.72	Ls,vfxl,fos,sty	
4 6140.0-41.0	<0.01	<0.01	1 + 8	0.0	62.3	2.72	Ls,vfxl,sty	
5 6141.0-42.0	0.22	0.03	1.6	0.0	64.8	2.71	Ls, vfx1	VF
					THE 1140 MA	yan may yan		
6 6142.0-43.0	0 + 09	0.01	2.3	0+0	55.2	2.72	Ls, vfxl, sty, few vss	VF
7 6143.0-44.0	1.2	0.01	3.3	0.0	50.6	2.72	Ls,vfxl,sty	٧r
6144.0-45.0	0.02	0.02	4.1	0.0	51.0	2.74	Ls,vfxl,sty	
9 6145.0-46.0	0.01	0.01	2.5	0.0	72.8	2.70	Lsyvfxlysts	1.11**
10 6146.0-47.0	0.30	017	5+4	0.0	40.0	2.73	Ls.fxl,fos	VF
a a see a see a	Λ Λ/	A AE	5.6	2.8	37.0	2.73	Ls,fxl,fos,pp vss	
6147.0-48.0	0.06	0.05 0.58	7.0	0.9	27.5	2.71	Ls,fxl,pp vss	VF
12 6148.0-49.0	1.1		9.8	2.6	32.1	2.72	Lsyfxl,fos,pp vas	
13 6149.0-50.0	0.66	0.49	7.0 8.2	1.3	24.0	2.71	Lsifxlifosipp VSS	
14 6150.0-51.0	0.30	0.24		2.7	25.8	2.72	Ls,fxl-suc,fos,pp VAS	:
15 6151.0-52.0	1.8	1.5	12.5	2.47	(1) د آب شم		rative amenioaste, su-	
16 6152.0-53.0	2.1	2.0	12.9	0.2	30.2	2.73	Ls,fxl-suc,fos,pp vs	5 - ₁ - 2
17 6153.0-54.0	3.5	3.1	15.1	0.7	33.2	2.74	Lsifxl-sucifusipp vs	5
. 18 6154.0-55.0	3.2	3.0	15.3	0.6	28.6	2.78	Ls,dol,fxl-suc,fos,s	P VSS
er to brouke gase.	W 7 4.	w , u						

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SKYLINE OIL CO.

Date: 05 Aus 1983

TTCS File #: 385

Well:

Mustans #3

FULL DIAMETER DEAN-STARK ANALYSIS

2	miner anim, rivers magni mane strany u		ability	Forosity	Satur		Grain	Litholosy
Sample Number	Derth (feet)	Horz (md)	(md)	(%)	0il (%)	H20 (%)	Densits (sm/cc)	
<i>J.</i>	**************************************				ere: 	aptivities fragerius angelius ty	program engette etropic (energy (essue)	And the same that the same tha
19	6155,0-56.0	1.5	1.4	10.2	0.6	29.0	2.76	Ls,dol,fxl-suc,fos,pp vss
20	6156.0-57.0	1.0	0.98	11.4	0.8	28.7	2.74	is,dol,fxl-suc,fos,pp vss
21	6157,0-58.0	1.7	1.5	12.0	0.3	30.1	2.77	Ls.dol.fxl-suc.fos.pp vas
22	6158.0-59.0	1.6	1.5	10.3	0.7	24.8	2.78	Ls,dol,fxl-suc,fos,pp vss
23	6159.0-60.0	1.0	0.99	10.2	1.1	23.4	2.78	Ls,dol,fxl-suc,fos,pp vss
24	6160.0-61.0	2.0	1.6	8.6	1.9	21.9	2.79	Ls.dol,fxl-suc.sl/anhy
25	6161.0-62.0	3.5	3.2	10,4	0.4	28.1	2.78	Ls,dol,fxl-suc,sl/anhs
26	6162.0-63.0	0.42	0.42	7 . 4	0.7	36.4	2.73	Ls.fxl.fos.sts
27	5163.0-64.0	0.94	0.61	8.2	0.0	31.6	2.77	Ls,dol,fxl-suc,fas
28	6164.0-65.0	1.2	11	21.3	0.0	28.1	2.84	Dol:suc:pp vgs:anhs incl
29	6165.0-66.0	3.1	2.8	13.8	0.7	24.6	2.85	Dolysuc,anhy incl
30	6166.0-67.0	0.53	0.39	6.0	1.9	22.6	2.79	Dol, lms, suc, enhs incl
31	6167.0-68.0	0.25+	0.25	3.2	1.0	27.9	2.76	Ls,dol,fxl,sty,sl/anhy
32	6168.0-69.0	0.06	0.01	2.8	5.5	18.5	2.74	Ls:fxl:sl/vau:sl/anhu
33	6169.0-70.0	0.49	0.63	2.8	4.0	18,2	2.75	Ls,fxl,sl/vsv,anhv incl
34	6170.0-71.0	1.8	1.6	7.5	2.0	12.6	2.72	Ls:fxl:vas:sl/anhs
35	6171.0-72.0	0.49	0.47	5.1	2.4	13.4	2.72	Ls.fxl,vsu
36	6172.0-73.0	1.2	0.79	6.2	3.4	17.9	2.71	Ls,fxl,vsy
37	6173.0-74.0	1.8	1.6	6.3	1.8	16.8	2.71	Ls,fxl,vss
38	6174.0-75.0	1.5	1.4	5.7	4.5	11.7	2,73	Ls,fxl,vsu,sl/anhu
39	6175.0-76.0	<0.01	*	2.7	3.4	23.9	2.71	Ls+vfxl+sl/vsy
40	6176.0-77.0	0.12	0.09	2.6	0.0	24.6	2.76	Ls/sl/dol/fxl/sty/anhy incl
1. 14 A.T. 14			• " • " •			and the second second		

^{*} Plus permeability - sample not suitable for full diameter measurement

Page 2

⁺ Horizontal dehydration crack

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SKYLINE OIL CO

Date: 05 Aug 1983

TTCS File #: 385

Well:

Mustans #3

FULL DIAMETER DEAN-STARK ANALYSIS

Sample Number		Pern Horz (md)	Horz-90` (md)	Forosity (%)	Satur Oil (%)	ation H2O (%)	Grain Densits (sm/cc)	Lithology
<i></i>		***************************************		****** ******* ******* ******* ********				
41	6177.0-78.0	0.02	0.02	1.7	0.0	37.1	2.78	Ls,dol,vfxl,sty,anhy incl
42	6178.0-79.0	1.2	0.88	12.1	2.5	17.5	2.85	Nol-sucranha incl
43	6179.0-80.0	<0.01	<0.01	2.4	0.0	48.8	2.75	Ls,sl/dol,vfxl
44	6180.0-81.0	0.03	0.02	1.3	0.0	38.6	. 2.72	Ls,vfxl,sl/shu
45	6181.0-82.0	<0.01	<0.01	0.9	0.0	39.3	2.70	Ls,vfxl,fos
46	6182.0-83.0	<0.01	<0.01	2.3	0.0	49.0	2,72	Ls.vfxl.fos
47	6183.0-84.0	0.03	<0.01	2.6	0.0	40.3	2.72	Ls.vfxl.sl/shw.anhw incl
48	6184.0-85.0	0.02	0.02	3.7	0.0	40.0	2.72	Lsvvfxlvsl/shavsta
49	6185.0-86.0	0.04	0.03	1.6	0.0	47.6	2.71	Ls.vfxl.sl/shs.fos
50	6186.0-87.0	0.04	0.03	2.0	0.0	51.6	2.75	Ls,vfxl,sl/shu,stw,fos,sl/anhu
51	6187.0-88.0	0.04	0.03	3.1	0.0	46.8	2.74	Ls,vfxl,fos,sl/anhy
52	6188.0-89.0	0.12	0.11	6.4	15.6	29.8	2.71	Ls,fxl-suc,sl/shy,fos
) 53	6189.0-90.0	0.46	0.43	9.7	23.8	23.6	2.71	Ls:fx1-sucvs1/she,fas
54	6190.0-91.0	2.3	2.2	13.1	14.9	28.0	2.76	Leydolysucysl/anhy
55	6191,0-92,0	0.10	0.09	6.7	16.3	22.2	2.78	Ls,dol,fxl-suc,sty
54	6192.0-93.0	3.0	2.8	15.6	14,2	25.1	2.82	Dolysuc, anhy incl
57	6193,0-94,0	7.0	6.6	1.6 - 1	14.9	23,4	2.82	Dolysuryanhy incl
58	6194,0-95.0	7.6	7.1	19.1	17.3	27.9	2.84	Dolysuc, anhy incl
59	6195.0-96.0	5.6	5.3	12.6	18.1	15,1	2.85	Dolysucyanhy incl
**	6196.0 - 6200.0							NOT RECOVERED
	5200.0 - 6425. 0							DRILLED INTERVAL
	6425.0 - 6450.0							SH, LMY, BLK, ORGANIC

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SKYLINE OIL CO.

Date: 05 Aus 1983

TTCS File #: 385

Mell

Mustans #3

FULL DIAMETER DEAN-STARK ANALYSIS

Sample Number		Permesbilits Horz Horz-90 (md) (md)	O	sturstion il H2O %) (%)	Grain Densits (sm/cc)	Litholosy
ć	6450.0 - 6453.0 6453.0 - 6455.0 6455.0 - 6457.0 6457.0 - 6460.0	0 0 0				LS,SHY SH,LMY,BLK,ORGANIC LS,SHY SH,LMY LS,SL/SHY
	6462.0 - 6465.	0				NOT RECOVERED

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SKYLINE DIL CO.

Well: Field:

Mustans #3 Mustans Drilling Fluid: Gel dispersed State: County:

Location:

Utah

San Juan Sec26 Twn368 Rris23E Date:

05 Aus 1983

TTCS File #: 385 6108 sl Elevation:

FULL DIAMETER DEAN-STARK ANALYSIS DATA SUMMARY

	De l'elected delles décesses (prières decesses descesses describes des		#14 EE440.44 ATABOUT TTITTE METATOR				Marie Mantes Manager Manager Annaber Manager Manager	
Zone Number	Derth Interval (feet)	Number of samples	Permeabi Horz (md)	lits Horz-90° (md)	Porosity (%)	Saturation Oil H2O (%) (%)	Grain Density (sm/cc)	
Again Marin Marin Company								
ISHAY -	DESERT CREEK	C FORMAT	TION					
1	6137.0-147.0	10	0.25 [0.36]	0.08	2.9 [1.1]	0.0 54.6 [0.0] [9.7]	2.72 [0.0]	
	6147.0-151.0	4	0.52 C0.443	0.34 [0.24]	7.6 C1.83	1.9 30.2 [0.9] [5.6]	2.72 [0.0]	
3.	6151.0-162.0	11	2.1 [0.92]	1.9 [0.82]	11.7 [2.1]	0.9 27.6 [0.8] [3.3]	2.76 [0.0]	
4. A	6162.0-164.0	2	0.68 [0.36]	0.52 [0.14]	7.8 C0.63	0.3 34.0 [0.5] [3.4]	2.75 [0.0]	
5	6164.0-166.0	2 2	7.5 [6.1]	7.0 [6.0]	17.6 C5.33	0.3 26.4 [0.5] [2.5]	2.85 ro.01	
	6166.0-170.0	4	0.38 [0.28]	0.32 [0.26]	3.7 [1.5]	3.1 21.8 [2.0] [4.5]	2.76 [0.0]	

Pase 2

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SKYLINE OTL CO.

Date: 05 Aus 1983

TTCS File #: 385

Well:

Mustans #3

DATA SUMMARY

)	Zone Number	Derth Interval (feet)	Number of sameles	Permesb Horz (md)	ility Horz-90' (md)	Porosity (%)	Satura Oil (%)	tion H20 (%)	Grain Densits (sm/cc)	
	7	6170.0-175.0		1.4 [0.54]	1.2 [0.51]	6.1 [0.9]	2.8 [1.1]	14.5 [2.7]	2.72 [0.0]	
	8	6175.0-179.0	4	0.34 [0.58]	0.33 [0.48]	4,8 [4,9]	1.5 [1.7]	25.8 [8.2]	2.77 [0.1]	
	9	6179.0-188.0	9	0.02 [0.02]	0.02 [0.01]	2.2 [0.9]	0.0	44.7 [5.1]	2.73 [0.0]	
	10	6188.0-190.0	2	0.29	0.27 [0.23]	8.1 [2.3]	19.7 [5.8]	26.7 [4.4]	2.71 [0.0]	
		6190.0-196.0	6 6	4.3 [2.9]	4.0 [2.8]	13.8 [4.2]	16.0 [1.5]	23.6 [4.8]	2.81 [0.0]	

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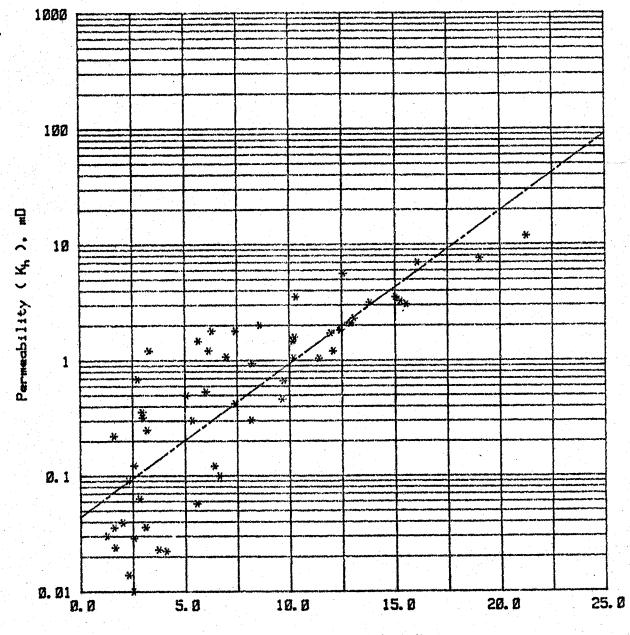
HORIZONTAL PERMEABILITY

VS

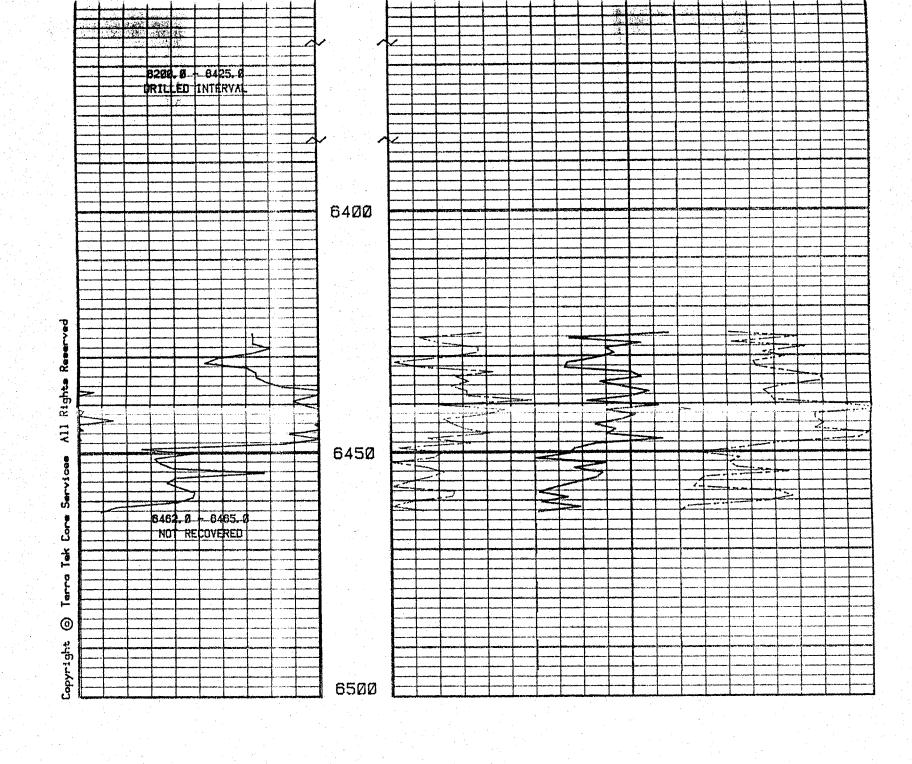
POROSITY

SKYLINE OIL CO.

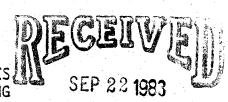
Mustang #3 Mustang Field San Juan County, Utah Ø5 Aug 1983



Porceity (#). X



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES,
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116



DIVISION OF OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number MUSTANG UNIT #3
Operator SKYLINE OIL COMPANY Address Salt Lake City, Utah 84111
Contractor FOUR CORNERS DRILLING CO. Address P. O. Box 1067 Farmington, New Mexico 8749
Location SW 4 NW 4 Sec. 26 T. 36 S. R. 23 E. County San Juan
<u>Water Sands</u>
Depth Volume Quality
From To Flow Rate or Head Fresh or Salty 1.
2
3
4
5
(Continue of reverse side if necessary)
Formation Tops Bluff- 1022'; Entrada - 1232'; Navajo - 1430'; Chinle - 2176'; Moenkopi - 2912'; Hermosa - 5000'; Ismay - 6109'; Desert Creek - 6359' Remarks No water flows indicated during drilling.
NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
(b) If a water analysis has been made of the above reported zone,

SKYLINE
Oil Company

A TEXAS EASTERN COMPANY

MAY 2 2 1984

DIVISION OF OIL GAS & MINING

Late Carting

Jan Basa

May 21, 1984

Ms. Deanne Nielson
Division of Oil, Gas, & Mining
4241 State Office Building
Salt Lake City, Utah

Dear Ms. Nielson:

In response to your letter dated April 30, 1984 to Mr. Doug Peters, please find the following responses:

- 1. Skyline Oil Company tested the Mustang Unit No. 3 between the dates July 23 28, 1983 and August 5 8, 1983, prior to completing the well. The well was shut in the morning of August 9, 1983 and remains shut-in. The well was completed August 8, 1983 for 2450 MCFD and 98.4 bbls. condensate. All gas produced occurred during the initial potential testing of the well.
- 2. The amount of flared gas reported by Skyline Oil Company is based upon the initial GOR of the well as reported on the Well Completion Report and Log for the Federal #11-33. A recent GOR test run on March 14, 1984 showed the well producing 36.2 MCF/D and 91.2 BOPD for a GOR of 397. The most recent gas analysis of the produced gas from this well shows a hydrocarbon content of 65.1% and a non-combustible gas content of 34.9%. Utilizing these numbers, Skyline is venting a total of 23.6 MCF/day of hydrocarbon gases. With the closest gas pipeline in excess of 10 miles distant and the requirement of extensive treating of this gas to meet pipeline quality standards, it is not economic to make provisions to sell this gas.
- 3. The amount of gas flared as reported by Skyline Oil Company is based upon the initial GOR of the State #2-43X as reported on the Well Completion Report and Log. A recent GOR test run March 22, 1984 showed the well producing 10.5 BOPD and 10 MCF for a GOR of 952. As this amount does not presently exceed the 25 MCFD limit as stated in Rule C-27, this well is currently in compliance with said Rule C-27.

As you can see from the above data, the hydrocarbon gases presently being flared or vented from the Federal #11-33 and State #2-43X does not exceed the 25 MCF/D limit as set out in Rule C-27.

If you require additional information on this matter, please contact the undersigned at your convenience.

Sincerely,

Michael D. Anderson,

Staff Engineer

Form 3160-5 (November 1983) (Formerly 9-331)

UNITED STATES

SUBMIT IN TRIPLICATES (Other Instruction) re-

rom approved. Budget Bureau No. 1004-0135-3

Exp	nies Mugust	31,	198	
5. LEASE	POITAROISSE	AND	BER L.	NO.

BUREAU OF LAND MANAGEMENT	5. LEASE DEBIGNATION AND BERIAL NO. U-20024
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTER OR TRIBE NAME
	7. UNIT AGBEEMENT NAME
WELL GAN WELL OTHER	Mustang
NAME OF OPERATOR	8. FARM OR LEADE NAME
Texas Eastern Skyline Oil Company	Mustang Unit
ADDRESS OF OPERATOR	9. WELL NO.
1775 Sherman, Suite 1200, Denver, Colorado 80203	3
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	12. FIELD AND POOL, OR WILDCAY Mustang Flat
610' FWL & 1675' FNL (SW NW) Sec. 26, T36S, R23E	11. Bac., T., B., M., ON BLK. AND BURYRY OR ARMA Sec. 26, T365,

61 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 14. PERMIT NO.

R23E, SLB&M 12. COUNTY OR PARISH | 13. STATE San Juan Utah

API #43-037-30894 16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:					BUBBEQUENT REPORT OF:					
÷								1		
TEST WATER SHUT-OFF		PULL OR ALTER CASING),,	_	WATER SHUT-OFF	<u> </u>	REPAIRING WELL		
PRACTURE TREAT		MULTIPLE COMPLETE				FRACTURE TREATMENT		ALTERING CASING		
SHOUT OR ACIDIZE		ABANDON®				SHOOTING OR ACIDIZING		ABANDONMENT*	<u> </u>	
REPAIR WELL		CHANGE PLANS				(Other)			l	
(Other) Perfora	te	additional pay.	X			(Norz: Report rest Completion or Reco	ults (uaple	of multiple completion on Weltion Report and Log form.)	1	

17. DESCRIEZ PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texas Eastern Skyline Oil Company intends to add additional perforations in the subject well as follows:

Kill well, remove wellhead and install BOP's. 1.

OGL-6108'

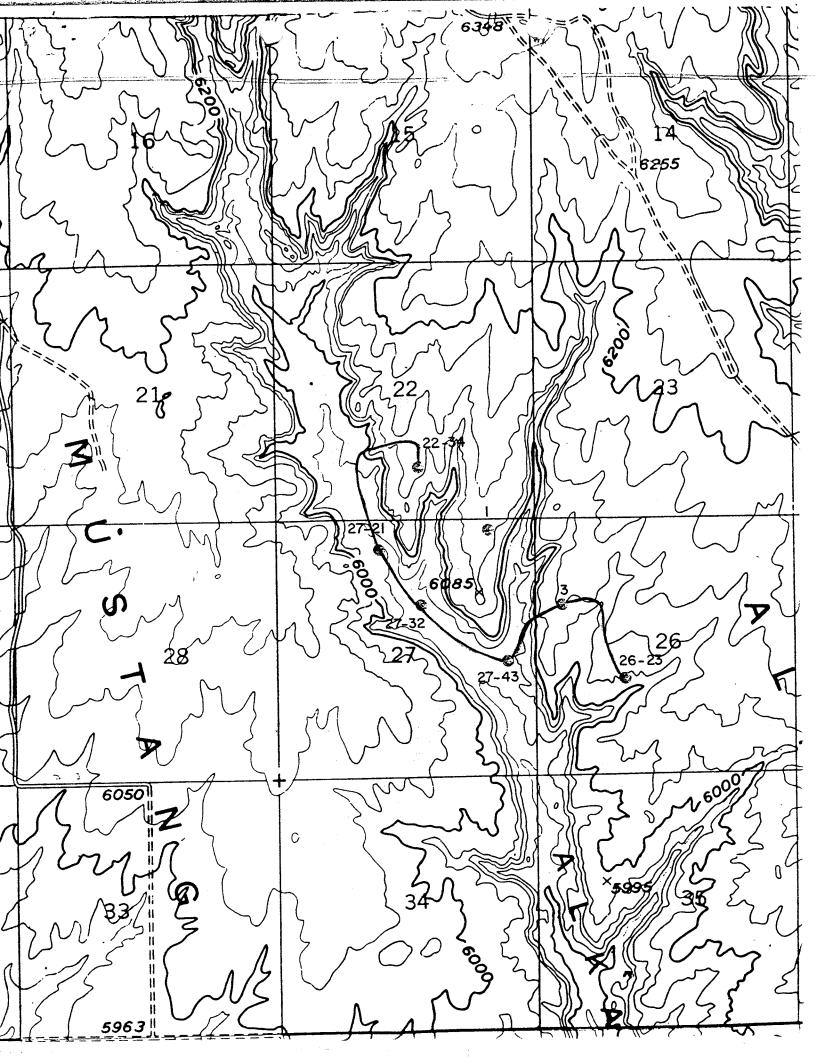
- Rig up wireline and set RBP at 6190'. Perforate Upper Ismay 2. at 6139'-41', 6150'-70', 6175'-82', and 6186'.
- Stimulate interval with 5000 gals. 15% HCl. 3.
- Recover treatment fluids and test well. 4.
- Conduct button-hole pressure buildup test.
- Remove RBP, commingle intervals and run completion test. 6.

18. I hereby certify that the foregoing is trae and considered Munael M. Andles	orrect TITLE Staff Engine	eer DATE 11-1-84
(This space for Federal or State office use)		ANCEPTED
APPROVED BY	TITLE	ACCEPTED APPROVED BY THE STATE OF UTAH DIVISION OF
Federal approval of this action is required before commencing operations.	*See Instructions on Revers	OH, GAS, AND MINING

	UNIT STATES DEPARTMENT OF THE INTER BUREAU OF LAND MANAGEME	NT	Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985 5. Lease designation and seeict No. U-20024 6. IF INDIAN, ALLOTTES OR TRIBE NAME
SUNDI	RY NOTICES AND REPORTS on for proposals to drill or to deepen or pluse "Application for permit—" for such	ON WELLS g back to a different reservoir. a propossis.)	
I.		· · · · · · · · · · · · · · · · · · ·	7. UNIT AGREEMENT NAME
OIL X CAR	OTMER		Mustang
2. HAME OF OPERATOR			S. FARM OR LEASE NAME
TEXAS EASTERN SKYLINE OIL COMPANY			Mustang Unit
3. ADDRESS OF OPERATOR			9. WBLL RO.
1775 Sherman Street, Suite 1200, Denver, Colorado 80203			3
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*			10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface			Mustang Flat
610'FWL & 1	L675' FNL (SW NW) Sec. 26,	T36S, R23E	11. SHC., T., R., M., OR BLE. AND SURVEY OR ARMA Sec. 26, T36S,
			R23E, SLB&M
14. PERMIT NO. API #43-037-308	15. SLEVATIONS (Show whether OGL - 6108)		San Juan Utah
16.		Nister (Nister Parest or C	Debug Data
	Check Appropriate Box To Indicate		UBNT REPORT OF:
			REPAIRING WELL
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	ALTERING CASING
FRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATMENT	ABANDONMENT®
SHOOT OR ACIDIES	ABANDON*	SHOOTING OR ACIDIZING	
REPAIR WELL	change plans X	(Other)	s of multiple completion on Well detion Report and Log form.)
nent to this work.) *	Texas Eastern Skyline Oil		
	stock-storage point for		
	Mustang Flat Field.		
	ridscally Flat Flora.		11 18 1985 LIVE & MINING
18. I hereby certify that the	ne foregoing is true and correct	Staff Engineer	DATE1-11-84
(This space for Federa	l or State office use)		
APPROVED BY	POVAL IF ANY		DATE

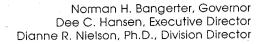
Prod 3160-5 (Nowember 1983) (Formurly 9-331) DEPARTMENT OF THE BUREAU OF LAND MANA SUNDRY NOTICES AND REP (Po not use this form for proposals to drill or to deep Use "APPLICATION FOR PERMIT— 1 OIL GAS WELL OTHER 2. NAME OF OPERATOR TEXAS Eastern Skyline Oil Company 3. ADDRESS OF OPERATOR 1775 Sherman, Suite 1200, Denver, Co. See also space 17 below.) At surface	INTERIOR verse side) AGEMENT ORTS ON WELLS Prior plug back to a different reservoir. For such proposals.)	Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985 6. LEARS DESIGNATION AND SBRIAL NO. 6. IF INDIAN, ALLOTTEE UR TRIBE NAME 7. UNIT AGREEMENT HAME Mustang 8. FARM OR LEASE NAME Mustang Unit 9. WBLL NO. 22-34, 26-23, 27-21, 27-32, 27-43 & 3 10. FIELD AND FOOL, OR WILDCAT Mustang Flat 11. BBC, T., E., M., OR BLE. AND BURYST OR ARMA Sec. 22, 26 & 27, T36S,
14. PERMIT NO. 15. ELEVATIONS (Sho	w whether DF, RT, OR, etc.)	R23E, SLB&M 12. COUNTY OF FARISH 18. STATE San Juan Utah
TEST WATER SHUT-OFF PRACTURE TREAT SHOOT OR ACIDIEB REPAIR WELL MOTICE OF INTENTION TO: PCLL OR ALTER CASING MULTIPLE COMPLETE ABANDON® CHANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (Note: Report results)	REPAIRING WELL ALTERING CASING ABANDONMENT® Lits of multiple completion on Well completion Report and Log form.)
Texas Eastern Skyline Oil Company and reinjection and dehydration at well tion at well will be tied into sections of the pipeline shown in will be laid on the surface. A ce at the Mustang Unit #3. Two slug catcher at #27-43 will be installed to return liquids caught by the sluther than the compressor to treating and sto	proposes to install and operang Flat Field. The system of	ate a produced gas gathering will consist of wellhead 7-43 and wellhead dehydrashown on the attached "or 3" lateral. Those sections shown in red essor will be installed and one inline slug 111 run from #3 to #27-43 stage liquid knockout on
18. I hereby certify that the foregoing is true and correct SIGNED MANUAL FRAUSA	TITLE Staff Engineer	Nov. 13, 1984
(This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

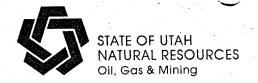
*See Instructions on Reverse Side



Form 3160-5 (November 1983) CATEO STATES SUBMIT IN TP (CATEO (Other instruction of the contraction of the co	Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985
(Formerly 9–331) DEPARTN T OF THE INTERIOR (Other linetruc on re-	6. LEASE DESIGNATION AND SERIAL NO. U-20024
SUNDRY NOTICES AND REPORTS ON WELLS (1) o not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTER OR TRISE NAME
I. OIL (T) GAS ET	7. UNIT AGEBEMENT HAME
WELL WELL OTHER	Mustang 8. FARN OR LEASE NAME
Texas Eastern Skyline Oil Company	Mustang Unit
3. ADDRESS OF OPERATOR	9. WELL NO.
1775 Sherman Street, Suite 1200, Denver, CO 80203	3
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	Mustang Flat, Ismay
610' FWL & 1,675' FNL (SWNW) Sec. 26, T36S-R23E.	Sec. 26, T36S-R23E, SLB&M
14. PERMIT NO. 15. BLEVATIONS (Show whether DF, NT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
API #43-037-30894 OGL-6108'	San Juan Utah
16. Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data
NOTICE OF INTENTION TO:	ENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CABING
BHOOT OR ACIDIZE ABANDON* BHOOTING OR ACIDIZING WE	11 on production
(Other) (Note: Report results	of multiple completion on Well etion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical near to this work.)* This is to notify your office that the subject well was production July 6, 1985.	I depths for all markers and sones perti-
	- .
	-
	•
and the second s	
RECEIVED	
JUL 1 9 1985	
DIVISION OF OIL GAS & MINING	
18. I hereby certify that the foregoing is tray and correct SIGNED Left Mollow TITLE Engineering Manager	July 12, 1985
(This space for Federal or State office use) APPROVED BY	DATE

*See Instructions on Reverse Side





355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 29, 1985

'Skyline Oil Company 1775 Sherman Street #1200 Denver, Colorado 80203

Gentlemen:

Re: Well No. Mustang Unit 3 - Sec. 26, T. 36S., R. 23E., San Juan County, Utah - API #43-037-30894

According to a sundry notice submitted November 1, 1984, it was the <u>intent</u> of Skyline Oil to perforate an additional zone on the above referenced well. As of this date we have not received the subsequent sundry notice on this procedure.

Please complete the enclosed form advising us of what action was taken on this well as soon as possible, but not later than September 11, 1985.

Sincerely,

Pam Kenna

Well Records Specialist

Jenna

Enclosure cc: Dianne R. Nielson Ronald J. Firth

John R. Baza

File

01705/11

(Nove	erly 9-331) DEPARTI	UNITED STATES MEN F THE INTERI OF LAND MANAGEMEN		Expires August 31, 1985 5. LEASE DESIGNATION AND SEAIAL NO. U-20024
	SUNDRY NOT	ICES AND REPORTS (Talls to drill or to deepen or plug to the portion for PERMIT—" for such p	ON WELLS pack to a different reservoir. proposals.)	6. IF INDIAN, ALLOTTER OR TRIBE NAME
ī.				7. UNIT AGENEMENT NAME
OIL	ALL WELL S OTHER			Mustang
\$. MA	MB OF OPERATOR			S. PARM OR LEASE NAME
	EXAS EASTERN SKYL	INE OIL COMPANY	· · · · · · · · · · · · · · · · · · ·	Mustang Unit
	DESS OF OPSEATOR	- 1. 1000 B	G-1	3
4. LO	775 Sherman St.,	Suite 1200, Denve.	State requirements.	10. PIBLD AND POOL, OR WILDCAT
Sec.	e also space 17 below.) surface			Mustang Flat - Ismay
6	10' FWL & 1675' F	NL (SWNW) Sec. 26	, T36S, R23E	11. SEC. T. B. M. OR BLK. AND SURVEY OR ARRA Sec. 26, T36S,
				R23E, SLB&M
	RMIT NO.	16. SIZVATIONS (Show whether DF	, ST, OB, etc.)	San Juan Utah
A	PI # 43-037-30894	OGL - 6108'		
16.	Check Ap	propriate Box To Indicate N	lature of Notice, Report, or C	other Data
	NOTICE OF INTER	TION TO:	BUBBBQU	EKT ERPORT OF:
T	RET WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
7	BACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTEBING CABING
	ROOT OR ACIDIES	ABANDON*	(Other) Perforating	additional pay
		HANGE PLANS	(Nors: Report results	of multiple completion on Well
17 000	Other)	RATIONS (Clearly state all pertinen	details and elve pertinent dates.	including estimated date of starting any
	proposed work. If well is direction nent to this work.)* IRU Workover rig. Ki			depths for all markers and sones perti-
				•
			139'-6141', 6150'-6170	and 6173 -0182 :
A	cidize interval 6139'	-6182' w/2500 gals.	15% HCl.	
R	U Swab. Made 3 swab	runs and well kicked	off flowing. Flow te	sted well for
1	O days Shut well in	for BHP buildup. P	alled bombs left well	shut in. Well
	=		Gas production is be	
	_			
t	he Mustang Unit Gas I	injection System and	injected into well #1.	
			DECE	IVED
			RECE	IAED
		-	SEP 1	2 1985
	·			N OF OIL MINING
	ereby certify that the foregoing is		ginooring Manager	9-5-25
810	GNED <u>FUIUUUUU A.</u>	TITLE EN	gineering Manager	DATE 9-5-85
(T	his space for Federal or State offic			
	PROVED BY	TITLE		DATE

*See Instructions on Reverse Side

Form 3160-5 (November 1983) (Formerly 9-331) DEPAR	UNITED STATES RTME OF THE INTERIO	SUBMIT IN TRIPLICATES OF CONTROL OF TRIPLICATES		31, 1985
	EAU OF LAND MANAGEMENT	211 serve maes	U-20024	AND ESSIAL NO.
SUNDRY NO	OTICES AND REPORTS O OPPORATE to drill or to deepen or plug ba LICATION FOR PERMIT—" for such pro		6. IF INDIAN, ALLOTTEE 0224)7
OIL CAB			7. UNIT AGEREMENT NAME MUSTang	M B
WELL WELL OTHER	t .		S. PARN OR LEASE WAY	<u> </u>
Texas Eastern Skyl	ine Oil Company		Mustang Unit	-
3. ADDRESS OF OPERATOR		20202	9. WELL NO.	
4. LOCATION OF WELL (Report location	t, Suite 1200, Denver Co		3 10. FIELD AND POOL, OR	WILDCAT
See also space 17 below.) At surface			Mustang Flat (
610' FWL & 1675' FNL	L (SW NW) Sec. 26, T36S	, R23E	Sec. 26, T36S	
14. PERNIT NO.	15. BLEVATIONS (Show whether Dr. 8		SLB&M	
API #43-037-30894	OGL-61081	rt, ca, etc.)	San Juan	Utah
16. Check	Appropriate Box To Indicate Na	ture of Notice, Report, or C	ther Data	
NOTICE OF IN			BHT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	MEPAIRING W	ELL
FRACTURE TREAT	NULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CAS	<u> </u>
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT	.•
REPAIR WELL	CHANGE PLANE	(Other) Notice of Sa		X
(Other)	OPERATIONS (Clearly state all pertinent	Completion or Recompl	of multiple completion or etion Report and Log form	a.)
property to Sameda	ine Oil Company on Janus n Oil Corporation. Effec k, Samedan will assume a is:	tive upon receipt by	the BLM of the	
	Samedan Oil Corpo 1616 Glenarm Place Denver, Colorado	e, Suite 2550		
. ************************************	Attn: Gary I		B 2.3 1987 444	
			WEELA OF BAS & MINING	
8. I hereby certify that the foregoing	Killish TITLE 1	Manager	DATE 2-2-8	37
(This space for Federal or State of				
APPROVED BY	TITLE		DATE	
CONDITIONS OF APPROVAL, IF	ANY:			

*See Instructions on Reverse Side

IC: M. Anderson

Bureau of Land Management Branch of Fluid Minerals (U-922) 324 South State Street Salt Lake City, Utah 84111-2303

022404

February 6, 1987

Samedan Oil Corporation 1616 Glenarm Place Suite 2550 Denver, Colorado 80202

L. M. TURNER FEB 9 1987

Land & Property Admin.

Re: Successor of Operator Mustang Unit San Juan County, Utah

Gentlemen: .

We received an indenture dated February 1, 1987, whereby Texas Eastern Skyline Oil Company resigned as Operator and Samedan Oil Corporation was designated as Operator for the Mustang Unit Agreement, San Juan County, Utah.

This indenture was executed by all required parties. The signatory parties have complied with Section 6 of the unit agreement. The instrument is hereby accepted effective as of February 6, 1987. Please advise all interested parties of the change in unit operator.

Sincerely,

(Orig. Sgd.) H.A. Lemm

Howard A. Lemm Chief, Branch of Fluid Minerals

Enclosure

cc: Texas Eastern Skyline Oil Company

FEB 55 1937

or the summe

MIDLA TEXAS / FARMINGTON, NEW MEXICO GRAND JUNCTION, COLORADO

P. O. Box 5247 Midland, Texas 79704 (915) 682-5574 Midland Fax (915) 682-5329 Farmington Fax (505) 325-1148

June 20, 1989



DIVISION OF OIL, GAS & MINING

Samedan Oil Corporation 1616 Glenarm Pl, Suite 2550 Denver, CO 80202

Attention: Mr. Scott Steinke

Subject: Bottomhole Pressure Measurements

Four Wells

Mustang Field UTAH San Juan County, New Mexico Our File No. 2-20853-P

Dear Mr. Steinke:

Attached hereto are the results of bottomhole pressure measurements which were conducted in the above captioned field June 16, 1989.

The data presented are in tabular and graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller

NT/ct



PRESSURE POUNDS PER SQUARE INCH GAUGE

1000

Page.

MIDLAND, TEXAS SAMEDAN OIL CORPORATION _ Lease _ Company. County SAN JUAN State _UTAH **MUSTANG** Field -Test Date JUNE 16, 1989 **ISMAY Formation** Status of Well Shut in 52.5 hour **PRESSURE GRADIENT** DEPTH Psig Psi/Ft. Feet 2600 1529 10 1000 1582 0.053 1636 0.054 2000 0.054 3000 1690 4000 1743 0.053 2400 5000 1793 0.050 0.056 5700 1832 5900 1843 0.055 0.054 6085 1853 6100 0.054 1854 2200 Psig Datum Pressure

2000 1800 1600 1400 Ft. Elev. Datum Total Depth Perf. 6134-92 Ft. Ft. **Tubing 2 7/8** in. to Ft. Casing in. to Casing Press.Pkr Tubing Press. 1529 T.G Oil Level Water Level 1200 Temperature 136 °F @ 6100 Ft. Element NoA7620 Range 0-4000 Last Test Date April 13, 1988 Pressure Last Test Date 2526 @ 6100

3000

B.H.P. Change 672 Psi Loss

6000

70'00

50d0

4d00

DEPTH: FEET

Samedan Oil Corporation June 20, 1989 Page Two

Distribution List:

2cc: BLM Branch of Fluids P. O. Box 970 Moab, Utah 84532

1cc: State of Utah 3 Triad Center, Suite 350 Salt Lake City, Ut 84180-1203

2cc: Samedan Oil Corporation P. O. Box 909 Ardmore, OK 73401-110 Attention: Mr. Alan Haltom

2cc: Marathon Oil Company
P. O. Box 120
Casper, WY 82602
Attention: Elizabeth Strathouse

1cc: Mr. John M. Beard 3030 NW Expressway, Suite 1405 Oklahoma City, OK 73112

2cc: Yates Petroleum Corporation 105 South 4th Street Artesia, NM 88210

2cc: Santa Fe Energy Company Williams Center Tower 1 1 West 3rd Street Tulsa, OK 74104

1cc: MCO Resources, Inc. 5718 Westheimer MCO Plaza Houston, Texas 77057 Attention: Mr. Jim Roth

FORM 9	STATE OF UTAH	। एए हिंच भी विकास		
· ·	, old, d. to , a. to , a. to	IN FORTA	5. Rase Designation and Serial Number:	
SUNDRY	NOTICES AND REPORTS	ON WELLS 3 0 1995	6 Piptien, Allottee or Tribe Name:	
Do not use this form for propor Use APPUK	sals to drill new wells, deepen existing wells, or to reents CATION FOR PERMIT TO DRILL OR DEEPEN form for st	PRICOFOIL GAS & MI	7. Unit Agreement Name:	
			o. Well Name and Number:	
1. Type of Well: OIL X GAS	OTHER:		Mustang #3	
2. Name of Operator: Samedan Oil Corporat	ion		9. API Well Number: 43-037-30894	
3. Address and Telephone Number: 1050 17th Street Suit	ite 1100 Denver CO 80265	(303) 534–1533	10. Field and Pool, or Wildcat: Mustang Flat	
4. Location of Well Footages: 610 FWL & 167	75' FNL		county: San Juan	
QQ, Sec.,T.,R.,M.: SWNW 26-	-T36S-R23E SLB & M		State: Utah	
11. CHECK APPRO	PRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
NOTIC	E OF INTENT	SUBSEQ	UENT REPORT	
	vit in Duplicate)	(Submit O	riginal Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	□ New Construction	
☐ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing	
☐ Change of Plans	Recomplete	☐ Change of Plans	☐ Reperforate	
☐ Convert to Injection	☐ Reperforate	☐ Convert to Injection	∨ent or Flare	
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off	
Multiple Completion	☐ Water Shut-Off	☐ Other Drained water	off bottom of tank	
Other		Date of work completion Octo	ber 13, 1995	
Approximate date work will start		Report results of Multiple Completions an COMPLETION OR RECOMPLETION REPO	d Recompletions to different reservoirs on WELL RT AND LOG form.	
and the second of the second o	And the second of the second	* Must be accompanied by a cement verifica	ation report	
DESCRIBE PROPOSED OR COMPLETED vertical depths for all markers and zones in the complete state.	OPERATIONS (Clearly state all pertinent details, and g pertinent to this work.)	ive pertinent dates. If well is directionally drilled	give subsurface locations and measured and true	
On October 13, 1995, approximately 44.46 bbls of water was drained from stock				
tank #52080 through the recycle valve water dump line. The recycle valve was				
resealed after dumping.				

	7			
13.	marthum) lus		
Name & Signature:		Matthew Peterson	Title: Engineer Tech	Date: 11/28/95

(This space for State use only)

FORM 9	STATE OF UTAH		
	DIVISION STOIL, GAS AND MIN	DECEME	5. Lease Designation and Serial Number:
SUNDRY	NOTICES AND REPORTS	ON WENOWS 3:0 1995	J. Indian, Allottee or Tribe Name:
Do not use this form for propos	sals to drill new wells, deepen existing wells, or to reer CATION FOR PERMIT TO DRILL OR DEEPEN form for		7, Unit Agreement Name:
1. Type of Well: OIL X GAS		DIV. OF OIL, GAS & MINI	
I GLE GAS E	Office.		Mustang #3
2. Name of Operator:			43-037-30894
Samedan Oil Corporat	ion		10. Field and Pool, or Wildcat:
3. Address and Telephone Number: 1050 17th Street Suit	ite 1100 Denver CO 80265	(303) 534-1533	Mustang Flat
4. Location of Well Footages: 610 FWL & 167			county: San Juan State: Utah
11. CHECK APPRO	PRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT. OR OTHER DATA
NOTIC	E OF INTENT sk in Duplicate)	SUBSEQ	UENT REPORT riginal Form Only)
☐ Abandon	☐ New Construction	Abandon *	☐ New Construction
Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Reperforate
☐ Convert to Injection	☐ Reperforate	☐ Convert to Injection	☐ Ventior Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other Drained water	off bottom of tank
Other		Date of work completion Octo	ber 13, 1995
Approximate date work will start		Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.	
	on the estimate and consider	* Must be accompanied by a cement verifica	ation report.
on October 13, 1995	, approximately 44.46 bb	ols of water was draine	d from stock
+an1 #52000 +brough	the meeted and treater	dimpline The recur	10 10110 1100

On October 13, 1995, approximately 44.46 bbls of water was drained from stock tank #52080 through the recycle valve water dump line. The recycle valve was resealed after dumping.

13.	marthur tus		
Name & Signature	Matthew	Engineer Tech	Date: 11/28/95
Ŧ			

(This space for State use only)

FORM 9

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

	DIVISION OF OIL, GAS AND MI	NING		5. LEA	SE DESIGNATION AND SERIAL NUMBER:
SUNDRY	NOTICES AND REPORTS	S ON WEL	LS	6. IF IN	DIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill n	new wells, significantly deepen existing wells below cur aterals. Use APPLICATION FOR PERMIT TO DRILL t	rrent bottom-hole dep	th, reenter plugged wells, or to	7. UNI	or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL		om for such propose	115.	F	L NAME and NUMBER: tang #3
2. NAME OF OPERATOR:				9. API	NUMBER:
Samedan Oil Corporation			Y		3730894
3. ADDRESS OF OPERATOR: 12600 Northborough 24	Y Houston STATE TX ZIP	77067	PHONE NUMBER: (281) 876-6150		LD AND POOL, OR WILDCAT: stang Flat
4. LOCATION OF WELL FOOTAGES AT SURFACE: 610' F	WL & 1675' FNL			COUNT	y: San Juan
QTR/QTR, SECTION, TOWNSHIP, RAN	ige, meridian: SWNW 26 36S 2	?3 E		STATE	UTAH
11. CHECK APPI	ROPRIATE BOXES TO INDICAT	TE NATURE	OF NOTICE, REPO	RT, O	R OTHER DATA
TYPE OF SUBMISSION		Т	YPE OF ACTION		-
NOTICE OF INTENT	ACIDIZE	DEEPEN			REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE	TREAT		SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONS	STRUCTION		TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR	R CHANGE		TUBING REPAIR
	CHANGE TUBING	PLUG AND	ABANDON		VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACI	<		WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS	PRODUCTI	ON (START/RESUME)		WATER SHUT-OFF
Date of work completion.	COMMINGLE PRODUCING FORMATIONS	RECLAMAT	TION OF WELL SITE	V	OTHER: Reclassify Well type to Gas Well
	CONVERT WELL TYPE	RECOMPLE	ETE - DIFFERENT FORMATION		to Gas Weii
12. DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show all p	pertinent details in	cluding dates, depths, volume	es, etc.	
Request to reclassify the	Well Type from Oil, to Gas.				
,					
NAME (PLEASE PRINT) Janis L. V	/ercher	TIT	LE Regulatory Clerk	: 1	
INAIVIE (PLEASE PRINT)	4. 1		5/15/2001		
SIGNATURE CANON V	ngui	DA	TE 3/13/2001		

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CERTIFICATE OF OWNERSHIP AND MERGER

of

SAMEDAN OIL CORPORATION (a Delaware corporation)

with and into

NOBLE ENERGY, INC. (a Delaware corporation)

(UNDER SECTION 253 OF THE GENERAL CORPORATION LAW OF THE STATE OF DELAWARE)

NOBLE ENERGY, INC., a Delaware corporation, hereby certifies that:

- (1) The name and state of incorporation or formation of each of the constituent corporations are:
 - (a) Samedan Oil Corporation, a Delaware corporation("Samedan");
 - and
 (b) Noble Energy, Inc., a Delaware corporation ("Noble").
- (2) Noble owns 100% of the issued and outstanding shares of the capital stock of Samedan.
 - (3) Noble shall be the surviving entity in the merger.
- (4) Pursuant to Section 253 of the General Corporation Law of the State of Delaware, the Board of Directors of Noble adopted resolutions, by unanimous written consent, authorizing the merger of Samedan with and into Noble. A copy of such resolutions, adopted by the Board of Directors of Noble as of December 10, 2002, is attached hereto as Exhibit A.
- (5) The Certificate of Incorporation of Noble shall be the Certificate of Incorporation of the surviving corporation.
- (6) The effective date of the merger shall be as of 11:59 p.m. EST, on December 31, 2002.
- (7) Anything herein or elsewhere to the contrary notwithstanding, this merger may be abandoned by the Board of Directors of Noble at any time prior to the date of filing the merger with the Secretary of State.

IN WITNESS WHEREOF, Noble has caused this certificate to be signed by the undersigned on the 17th day of December, 2002.

NOBLE ENERGY, INC., the surviving corporation

Q1/-

Charles D. Davidson

President

EXHIBIT A

Relating to the Merger of Samedan Oil Corporation with and into Noble Energy, Inc.

WHEREAS, Samedan Oil Corporation, a Delaware corporation ("Samedan"), is a wholly-owned, direct subsidiary of Noble Energy, Inc., a Delaware corporation ("Noble"); and

WHEREAS, the Board of Directors of Noble (the "Board") has determined, in its best business judgment, that it would be in the best interest of Noble to merge Samedan with and into Noble (the "Merger"); and

WHEREAS, Noble would be the surviving entity in the Merger; and

WHEREAS, for federal income tax purposes, the parties intend that the Merger qualify as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code of 1986, as amended (the "Code"), and/or as a tax-free liquidation under Section 332 of the Code;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Noble hereby approves the Merger; and further

RESOLVED, that Samedan shall be merged with and into Noble pursuant to the provisions of Section 253 of the Delaware General Corporation Law (the "DGCL"), and Noble shall be the surviving entity of the Merger; and further

RESOLVED, that in accordance with the DGCL, at midnight on December 31, 2002 (the "Effective Time"):

- (a) the separate existence of Samedan shall cease;
- (b) Noble and Samedan shall then and thereafter together comprise a single entity, which shall be Noble;
- (c) title to all real estate and other property and rights owned by Samedan shall be deemed to be owned by, and vested in, Noble without reversion or impairment; and
- (d) Noble shall assume all liabilities and obligations of Samedan; and further

RESOLVED, that at the Effective Time, each issued and outstanding share of the common stock, par value \$10.00 per share, of Samedan shall, by virtue of the Merger, be immediately cancelled and retired with no consideration to be paid therefor and all certificates representing such interests shall be cancelled; and further

060132 003224 HOUSTON 236763.2

RESOLVED, that after the Effective Time, each outstanding share of the common stock, par value \$3.333 per share, of Noble shall remain issued and outstanding; and further

RESOLVED, that the Board of Directors of Noble will serve as the Board of Directors of the surviving entity, and the Bylaws and Certificate of Incorporation of Noble shall serve as the Bylaws and Certificate of Incorporation of the surviving entity; and further

RESOLVED, that the proper officers of Noble are hereby authorized and empowered to take or cause to be taken all such further lawful action and to sign, execute, acknowledge, certify, deliver, accept, record and file all such further instruments in the name and on behalf of Noble as in their judgment shall be necessary, desirable or advisable in order to carry out the intent, and to accomplish the purposes, of the foregoing resolutions pursuant to the applicable provisions of the DGCL; and further

RESOLVED, that all lawful actions heretofore taken by the officers, counsel or representatives of Noble in connection with the subject of the foregoing resolutions be, and each hereby is, approved, ratified and confirmed in all respects as the act and deed of Noble.

060132 003224 HOUSTON 236763.2



The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"SAMEDAN OIL CORPORATION", A DELAWARE CORPORATION,

WITH AND INTO "NOBLE ENERGY, INC." UNDER THE NAME OF "NOBLE ENERGY, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTIETH DAY OF DECEMBER, A.D. 2002, AT 4 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2002, AT 11:59 O'CLOCK P.M.



Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 2171416

DATE: 12-26-02

0738126 8100M

020798841

CT CORPORATION

January 8, 2003

Colleen McFadden Thompson & Knight 333 Clay Street, Suite 3300 Houston TX 77002-4499

Re:

Order #: 5762125 SO

Customer Reference 1: 060132.003224

Customer Reference 2:

Dear Colleen McFadden:

In response to your request regarding the above referenced order, your filing(s) has been completed as indicated below:

Noble Energy, Inc. (DE) Qualification

Utah

Filing Date:

Fax #832-397-8109

If you have any questions concerning this order, please contact:

Jayna C Nickell

Houston Corporate Team 2

Phone: (713) 759-0729

Email: Jayna_Nickell@cch-lis.com

Thank you for this opportunity to be of service.

50 West Broadway, 8th Floor Salt Lake City, UT 84101 Tel. 801 364 5101 Fax 801 359 0388

CT CORPORATION

Sincerely, Ms. Deanette Widmer Special Assistant Secretary

Utah CT Representative 2 CT Corporation System (Utah)

50 West Broadway, 8th Floor Salt Lake City, UT 84101 Tal. 801 364 5101 Fax 801 359 0388

\$105.00
EXPEDITE

Fik	: Number	
	eck Here If. Profit Nooprofit	Non-Refundable Fee: \$50.00 \$20.00

EXPEDITE	Δ.	8
Application for Authority to Conduct Affairs for a Foreign Cor	poration	IAN 07 200
Noble Energy, Inc.	Ü	
Exact Corporate Name	<u> </u>	Z
y December 1969	ear)	
A corporation of the state of Delaware incorporated 25 day of	•	
The compositions period of duration is perpetual.		
The address of the corporation's principal office is:	77067	
	Zip	
Street Addition		
The Registrated Agent in Utah is: C T Corporation System 50 West Broadway		
The steet address of the registreed office in Counts: San Lake City, Uran 64101		
	Zip	
Marine & Alberta	citiot.	
agree to serve as a registered again not the government of		
Signature of Registered Agent (Required) Dec observed Invested In Vol. 1. April 1980		
The business purposes to be purnted in Utah are.		_
Luciaco in 15th on: December 31, 2002		
The corporation considered or intends to commence observe at a second		
Name Address	Zip	
See Attached		
*Profilm		
they are the same of the same		
		Ξ.
		_
		_
		-
A seriffernian of Good Standing/Excistence from the State of Incorporation dated no earlier than ninety (90) days pro	OF THE COTTO	
A configuration of converted to this application.		
With a rest available in Utah the composition shall use		
(Planta wife to (T) C. A. 16-10a-1506).)		
Comment of the same of the sam	he hest of my	
nder sensities of perjusy, I declare that this application for Certificate of Authority has been examined by the and to, a		
nowledge and belief, true, contest and complete.		
	DATE: 12/23/02	
Chrosphy (History		
FREE! You wasy visit our Web Site to access this document and dust much manager		
FREE! You wasy visit our Web Site to access this document and other information.		
Mail In: S.M. Box 146705 Salt Lake City, UT \$4114-6705 Walk In: 160 East 300 Sooth, Main Floor Corporation's Information Center: (801) 510-4849 Toll Free Number: (877) 526-3994 (Utah Residents)		
Mail In: S.M. Box 146705 Salt Lake City, UT \$4114-6705 Walk In: 160 East 300 Sooth, Main Floor Corporation's Information Center: (801) 530-4849 Toll Free Number: (877) 526-3994 (Utah Residents)		
	Application for Authority to Conduct Affairs for a Foreign Cornelloss. Noble Energy. Inc. Exer Corporate Name A corporation of the state of Delaware incorporated 29 day of December 1969 (y) The corporations period of duration is Derpetual (usually perpenual). The address of the corporation's principal office is: Store Address of the corporation's principal office is: Street Address of the registered office in Unit is: The Registered Agent in Utah is: The Description System The Description System The Description System The Description of Registered Agent Required Description agent to serve as a registered agent for the above-mentioned foreign corporation of Registered Agent Required Description agent to serve as a registered agent for the above-mentioned foreign corporation of Registered Agent Required Description agent to serve as a registered agent for the above-mentioned foreign corporation of Registered Agent Required Description agent to serve as a registered agent for the above-mentioned foreign corporation of Registered Agent Required Description agent to serve as a registered agent for the above-mentioned foreign corporation of Registered Agent Required Description agent for the above-mentioned foreign corporation agent and Gast Company. The corporation commenced or intends to commence business in Utah on: December 31, 2002 The names and addresses of the corporation's officers and directors are. Name Address Active See Attached Provider. The name is not available in Utah the corporation shall use. (Please refer to (U.C.A. 16-18-1508).) The period of period of the corporation and the corporation of Authority has been examined by me and is, to it would be a period of the corporation of Authority has been examined by me and is, to it with the application.	A comporation of the state of _Delaware

ATTACHMENT TO APPLICATION FOR AUTHORITY TO CONDUCT AFFAIRS FOR A FOREIGN CORPORATION IN UTAH FOR

7. The names and addresses of the corporation's officers and directors are:

Name	Office/Title	Mailing Address
Michael A. Cawley	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Edward F. Cox	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
James C. Day	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Charles D. Davidson	. Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Dale P. Jones	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Bruce A. Smith	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Kirby L. Hedrick	Director	350 Glenborough Drive, Suite 100 Houston, TX 77067
Charles D. Davidso	n Chairman of the Board, President and CEO	350 Glenborough Drive, Suite 100 Houston, TX 77067
Susan M. Cumingi	nam Senior VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Albert D. Hoppe	Senior VP and Secretary	350 Glenborough Drive, Suite 100 Houston, TX 77067
James L. McElvan	y Senior VP, CFO and Treasurer	350 Glenborough Drive, Suite 100 Houston, TX 77067
William A. Poillio	n, Jr. Senior VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Robert K. Burleso	n VP	350 Glenborough Drive, Suite 100 Houston, TX 77067

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Name	Office/Title	Mailing Address
Alan R. Bullington	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Richard A. Peneguy, Jr.	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Ted A. Price	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
David L. Stover	VP	350 Glenborough Drive, Suite 100 Houston, TX 77067
Kenneth P. Wiley	VP .	350 Glenborough Drive, Suite 100 Houston, TX 77067
Arnold J. Johnson	Assistant Secretary	350 Glenborough Drive, Suite 100 Houston, TX 77067
Kirk A. Moore	Assistant Secretary	350 Glenborough Drive, Suite 100 Houston, TX 77067
William R. McKown	Assistant Treasurer	350 Glenborough Drive, Suite 100 Houston, TX 77067

<u>Delaware</u> The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAMARB, DO HEREBY CERTIFY "NOBLE ENERGY, INC." IS DULY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL CORPORATE EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE SIXTH DAY OF JANUARY, A.D. 2003.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "NOBLE ENERGY, INC." WAS INCORPORATED ON THE TWENTY-NINTH DAY OF DECEMBER, A.D. 1969.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL REPORTS HAVE BEEN FILED TO DATE.

AND I DO HEREBY FURTHER CERTIFY THAT THE FRANCHISE TAXES HAVE BEEN PAID TO DATE.

0738126 8300

030006092

AUTHENTICATION: 2186055

DATE: 01-06-03

STATE OF UTAH DEPARTMENT OF COMMERCE REGISTRATION

NOBLE ENERGY, INC.

EFFECTIVE 01/07/2003

REFERENCE NUMBER(5), CLASSIFICATION(S) & GETAIL(S)

Corporation - Foreign - Profit 5250317-0143

CT CORPORATION SYSTEM NOBLE ENERGY, INC. 50 W BROADWAY 8TH FL SLC UT 84101-2006

STATE OF UTAH DEPARTMENT OF COMMERCE DIVISION OF CORPORATIONS & COMMERCIAL CODE

REGISTRATION

EFFECTIVE DATE:

01/07/2003

EXPIRATION DATE:

*RENEWAL

ISSUED TO:

NOBLE ENERGY, INC.



REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S)

5250317-0143 Corporation - Foreign - Profit

*RENEWAL You will need to renew your registration each anniversary date of the effective date. Exceptions: DBAs and Business Trusts renew every three (3) years from the effective date.

United States Department of the Interior

Bureau of Land Management

New Mexico State Office 1474 Rodeo Road P.O. Box 27115 Santa Fe, New Mexico 87502-0115 www.nm.blm.gov January 14, 2003

IN REPLY REFER TO: 3104 (NM930MSena) NM 0484

DECISION

Principal:

Noble Energy, Inc.

BLM Bond No.: NM 0484

350 Glenborough Dr., #100

Houston, TX 77067-3299

Surety Bond No.: 4149383

Bond Type: Oil and Gas

Surety:

Safeco Insurance Company

of America

Safeco Plaza

Seattle, WA 98185

Amount of Bond: \$150,000.00

Execution Date: October 7, 1980

Merger Recognized Rider Accepted

On January 10, 2003, this office received evidence concerning the merger of Samedan Oil Corporation, a Delaware corporation, into Noble Energy, Inc., a Delaware corporation, effective December 20, 2002,, the date the Secretary of State of the State of Delaware certified the merger.

A bond rider consents to change the principal from Samedan Oil Corporation to Noble Energy, Inc. It is accepted effective January 10, 2003, the date received.

Attached is a listing of leases obtained from our automated system. We have not abstracted the files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining neither record title nor operating rights interests. If our field offices require documentation for a change of operator, they will contact you.

BM bond number NM2585, issued by Safeco Insurance Company of America, number 5779477, is released.

BLM bond number NM2697 issued by Safeco Insurance Company of America, number 5895053, is released.

BLM bond number NM1483 issued by American Employers Insurance Company, unnumbered, is released.

The Bureau of Land Management has no record of bond number 5895055, 5779460 or 2063849. Therefore, we are unable to release these bonds.

Margo C. Sena Land Law Examiner

Cc: American Employers Insurance Co.
All BLM State Offices
MMS – Data Management Div. MS 3113
P. O. Box 5860
Denver, Co 80217

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER:
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 1. TYPE OF WELL OIL WELL GAS WELL OTHER	7. UNIT OF CA AGREEMENT NAME: SEE ATTACHED 8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:	SEE ATTACHED
NOBLE ENERGY, INC.	9. API NUMBER: SEE ATTACHED
3. ADDRESS OF OPERATOR: PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
2600 Northborougherry Houston STATE TX ZIP 77067 281-876-6150	SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED LIST	county: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS TO OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only)	WATER DISPOSAL
Date of work completion: PRODUCTION (START/RESUME)	WATER SHUT-OFF
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume OPERATOR CHANGE EFFECTIVE JANUARY 1,2003	es, etc.
FROM: SAMEDAN OIL CORPORATION	
12600 Northborugh, #250	
Houston, TX 77067	
Laticia James	RECEIVED
Patricia Jaenecke, Regulatory Clerk II	FEB 1 4 2003
	DIV. OF OIL, GAS & MINING
NAME (PLEASE PRINT) Gary Brune TITLE Asset Team	Leader
SIGNATURE	2

(This space for State use only)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155

In Reply Refer To: 3106 (UT-924)

March 20, 2003

Memorandum

To:

Moab Field Office

From:

Chief, Branch of Minerals Adjudication

Subject:

Merger Change Approval

Attached is an approved copy of the merger change, which is recognized by the Utah State Office. We have updated our records to reflect:

The merger change from Samedan Oil Corporation into Noble Energy Inc. is effective January 10, 2003. The BLM Bond Number is NM0484.

Robert Lopez
Chief, Branch of
Minerals Adjudication

Enclosure

- 1. New Mexico State Office Letter (3 pp)
- 2. List of leases (1 p)

cc:

MMS, Reference Data Branch, MS3130, PO Box 5860, Denver CO 80217 State of Utah, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC UT 84114

Teresa Thompson (UT-922) Joe Incardine (UT-921)

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MAR 2 4 2003



United States Department of the Interior

Bureau of Land Management

New Mexico State Office 1474 Rodeo Road P.O. Box 27115 Santa Fe, New Mexico 87502-0115 www.nm.blm.gov January 14, 2003

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MAR 2 4 2003

IN REPLY REFER TO: 3104 (NM930MSena) NM 0484 NMLC 0 45701 DIV. OF OIL, GAS & MINING

DECISION

Principal:

Noble Energy, Inc.

350 Glenborough Dr., #100

Houston, TX 77067-3299

Bond Type: Oil and Gas

BLM Bond No.: NM 0484

Surety Bond No.: 4149383

Surety:

Safeco Insurance Company

of America Safeco Plaza

Seattle, WA 98185

Amount of Bond: \$150,000.00

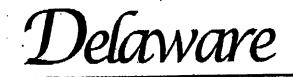
Execution Date: October 7, 1980

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PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"SAMEDAN OIL CORPORATION", A DELAWARE CORPORATION,

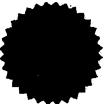
WITH AND INTO "NOBLE ENERGY, INC." UNDER THE NAME OF "NOBLE ENERGY, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTIETH DAY OF DECEMBER, A.D. 2002, AT 4 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2002, AT 11:59 O'CLOCK P.M.

RECEIVED

MAR 2 4 2003

DIV. OF OIL, GAS & MINING



Daniet Smith Hindson

0738126 8100M A

AUTHENTICATION: 2171147

020798832

DATE: 12-26-02

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW/
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

01-01-03

The operator of the well(s) listed below has changed, e	effective:	01-01-03				
FROM: (Old Operator):		TO: (New Op	erator):			
SAMEDAN OIL CORPORATION	1	NOBLE ENER	GY INC			
Address: 12600 NORTHBORUGH STE 250	1	Address: 12600) NORTHB	ORUGH ST	E 250	
HOUSTON, TX 77067]	HOUSTON, T	X 77067			
Phone: 1-(281)-876-6150]	Phone: 1-(281)				
Account No. N0185		Account No.	N2345		· · · · · · · · · · · · · · · · · · ·	
CA No.		Unit:	MUSTAN	G		
WELL(S)						
	SEC TWN	API NO	ENTITY	LEASE	WELL	WELL
NAME	RNG		NO	TYPE	TYPE	STATUS
MUSTANG UNIT 22-34		43-037-30943		FEDERAL		P
MUSTANG UNIT 26-33		43-037-31086		FEDERAL		S
MUSTANG UNIT 26-23		43-037-31024		FEDERAL		P
MUSTANG UNIT 3		43-037-30894		FEDERAL		P
MUSTANG UNIT 1			12112	FEDERAL		S
MUSTANG UNIT 27-32			10774	FEDERAL		P
MUSTANG UNIT 27-21		43-037-31030		FEDERAL		P
MUSTANG UNIT 27-42	27-36S-23E	43-037-31325	10774	FEDERAL	OW_	P
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OPERATOR CHANGES DOCUMENTATION Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation was received	from the FO F	RMER operator	on:	02/14/2003	<u>i</u>	
(· · · · · · · · · · · · · · · ·		-			_	
2. (R649-8-10) Sundry or legal documentation was received	from the NEV	V operator on:	02/14/200	3		
3. The new company has been checked through the Departm	nent of Comn	nerce, Division	of Corpora	tions Datab	ase on:	03/28/2003
4. Is the new operator registered in the State of Utah:	YES	_Business Num	ber:	5250317-014	<u>4</u> 3	

5. If NO , the operator was contacted contacted on:			,		
6. (R649-9-2)Waste Management Plan has been received on:	-	IN PLACE	_		
7. Federal and Indian Lease Wells: The BLM and or operator change for all wells listed on Federal or India		as approved 03/20/2003	the merger	, name chan	ge,
8. Federal and Indian Units: The BLM or BIA has approved the successor of unit or	perator for wells	listed on:	N/A		
9. Federal and Indian Communization Agreem The BLM or BIA has approved the operator for all well			N/A		* .
10. Underground Injection Control ("UIC") for the enhanced/secondary recovery unit/project for the				Transfer of Au N/A	ithority to Inject,
DATA ENTRY: 1. Changes entered in the Oil and Gas Database on:	03/28/2003			: A - **** 	
2. Changes have been entered on the Monthly Operator C	hange Spread S	heet on:	03/28/2003		
3. Bond information entered in RBDMS on:	N/A				
4. Fee wells attached to bond in RBDMS on:	N/A				
STATE WELL(S) BOND VERIFICATION: 1. State well(s) covered by Bond Number:	N/A				
FEDERAL WELL(S) BOND VERIFICATION: 1. Federal well(s) covered by Bond Number:	NM 0484				
INDIAN WELL(S) BOND VERIFICATION: 1. Indian well(s) covered by Bond Number:	N/A				
FEE WELL(S) BOND VERIFICATION: 1. (R649-3-1) The NEW operator of any fee well(s) listed c	overed by Bond	Number	N/A		y.
2. The FORMER operator has requested a release of liability. The Division sent response by letter on:	y from their bond N/A	l on:	N/A		
LEASE INTEREST OWNER NOTIFICATION 3. (R649-2-10) The FORMER operator of the fee wells has of their responsibility to notify all interest owners of this c	been contacted a	nd informed b N/A	y a letter fron	n the Division	
COMMENTS:					
		,			

FORM 9

STATE OF UTAH	
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER:
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT OF CA AGREEMENT NAME: SEE ATTACHED
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: D. J. Simmons, Inc. Name of Operator: Name of Operator: Name of Operator:	9. API NUMBER: ATTACHED
1009 Ridgeway Pl. Ste. 200 Farmington, NM 87401 505-326-375	10. FIELD AND POOL, OR WILDCAT: SEE ATTACHED
4. LOCATION OF WELL 2012 FOOTAGES AT SURFACE: SEE ATTACHED LIST	COUNTY: SAN JUAN
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volum	es, etc.
CHANGE OF OPERATOR	
EFFECTIVE DATE OF TRANSFER: 8/1/03	
FROM; NOBLE ENERGY, INC. TO: D. J. Simmons, Inc.	
/	20
11/11/2 Laureton TV 77067	
(281) 872-3100 — Farmington, NM 87401	

(This space for State use only)

NAME (PLEASE PRINT)

Gary C. Goldsmith

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AUG 1 - 2003 1850-59

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

	DIVISION OF OIL, GAS AND N		5. LEASE DESIGNATION AND SERIAL NUMBER:
SUNDRY	NOTICES AND REPORT	TS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
drii norizontai la	ew wells, significantly deepen existing wells below on the als. Use APPLICATION FOR PERMIT TO DRILI	current bottom-hole depth, reenter plugged wells, or to L form for such proposals.	7. UNIT OF CA AGREEMENT NAME: SEE ATTACHED
1. TYPE OF WELL OIL WELL	GAS WELL OTHER		8. WELL NAME AND NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: NOBLE ENERGY, INC. ((Farmer Opera	ton) N2345	9. API NUMBER: ATTACHED
	Houston STATE TX Z	PHONE NUMBER: (281) 876-6150	10. FIELD AND POOL, OR WILDCAT: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE:	SEE ATTACHED LIST	·	COUNTY: SAN JUAN
QTR/QTR, SECTION, TOWNSHIP, RANG	GE, MERIDIAN:		STATE: UTAH
	ROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) Approximate date work will start:	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start.	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR GHANGE	TUBING REPAIR
SUBSEQUENT REPORT	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF
	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER:
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR CO CHANGE OF OPERATOR		pertinent details including dates, depths, volume	s, etc.
EFFECTIVE DATE OF TR	ANSFER: 8/1/03	D. J. Simmons, Inc.	
FROM: NOBLE ENERGY	Y, INC. TO:	-1009 Ridgeway Pl. Ste. 200	
12600 Northbord		Formington NIM 97401	<u></u>
Houston, TX 77 (281) 872-3100	067	Farmington, NM 87401	
(201) 072-0100			
			RECEIVED
			AUG 1 4 2003
			DIV OF OIL, GAS & MINING
NAME (PLEASE PRINT) Gary Brune)	TITLE Asset Team Lead	er -

(This space for State use only)

WELL NAME	API NUMBER	LOCATION	WELL <u>TYPE</u>	<u>STATUS</u>	LEASE <u>TYPE</u>
MUSTANG UNIT 26-33	4303731086	36S 23E 26	OW	S	F
MUSTANG U 1	4303730776	36S 23E 27	GW	Р	F
MUSTANG UNIT 3	4303730894	36S 23E 26	GW	Р	F
MUSTANG UNIT 22-34	4303730943	36S 23E 22	OW	Р	F
MUSTANG UNIT 26-23	4303731024	36S 23E 26	OW	Р	F
MUSTANG UNIT 27-32	4303731025	36S 23E 27	OW	Р	F
MUSTANG UNIT 27-21	4303731030	36S 23E 27	ow	Р	F
MUSTANG UNIT 27-42	4303731325	36S 23E 27	OW	Р	F
WILD STALLION UNIT 1	4303731426	36S 23E 33	GW	Р	F
MUSTANG U 1	4303730776	36S 23E 27	- GW	S	
BONITO 41-6-85	4303731824	38S 25E 06	OW	Р	F

OPERATOR CHANGE WORKSHEET

ROUTING	
1. GLH	
2. CDW	
3. FILE	

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

FROM: (Old Operator):		effectiv				8/1/2003		
· · · · · · · · · · · · · · · · · · ·				TO: (New O	perator):			
N2345 - Noble Energy, Inc.				N2520-D. J. S	•			
12600 Northborough				1009 Ridgewa	y Pl. Ste. 200	O		
Houston, TX 77067				Farmington, N	-			
Phone: 1-(281) 876-6150				Phone: 1-(505)	326-3752			
CA No.				Unit:		*** See B	ELOW**	*
WELL(S)			-					
NAME	SEC	TWN	RNG	API NO	ENTITY	LEASE	WELL	WELL
111111					NO	TYPE	TYPE	STATUS
MUSTANG UNIT								
MUSTANG U 1	27	360S	230E	4303730776		Federal	GW	P
MUSTANG UNIT 27-21	27	360S	230E	4303731030		Federal	ow	P
MUSTANG UNIT 26-23	26	360S	230E	4303731024		Federal	OW_	P
MUSTANG UNIT 26-33	26	360S	230E	4303731086		Federal	OW	S
MUSTANG UNIT 27-42	27	360S	230E	4303731325		Federal	OW	P
MUSTANG UNIT 27-32	27	360S	230E	4303731025		Federal	OW	S
MUSTANG UNIT 3	26	360S	230E	4303730894	10774	Federal	GW	P
MUSTANG UNIT 22-34	22	360S	230E	4303730943	10774	Federal	ow	P
WILD CTALLION UNIT	Ι	T	1	1	T	l		T
WILD STALLION UNIT	33	360S	230E	4303731426	10888	Federal	GW	P
WILD STALLION UNIT 1	133	13003	[230E	4303731420	1 10000	1 CCCIui		
	06	2000	2505	4202721924	12517	Federal	OW	P
BONITO 41-6-85	06	380S	250E	4303731824	13317	redetat	- OW	1
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or operator change for all wells listed on Federal or Indian leases of the BLM and Indian Units: The BLM or BIA has approved the successor of unit operator for the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM o	or wells listed on: 'CA"): within a CA on: Pivision has approve ater disposal well(s	applied for B applied for N/A ed UIC Form 5, Transfer	PIA
3. Federal and Indian Units: The BLM or BIA has approved the successor of unit operator for The BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or BIA has approved the operator for all wells listed with the BLM or	or wells listed on: 'CA"): within a CA on: Pivision has approve ater disposal well(s	applied for B applied for N/A ed UIC Form 5, Transfer	of Authority to
The BLM or BIA has approved the successor of unit operator for a successor of unit operator for the BLM or BIA has approved the operator for all wells listed where the successor of unit operator for the black of the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the operator for all wells listed where the BLM or BIA has approved the black of the BLM or BIA has approved the black of the BLM or BIA has approved the black of the BLM or BIA has approved the black of the BLM or BIA has approved the black	'CA"): within a CA on: division has approve ater disposal well(s	N/A ed UIC Form 5, Transfer	
The BLM or BIA has approved the operator for all wells listed volume of the Description of the Description of the enhanced/secondary recovery unit/project for the well approved the enhanced of the well approved the enhanced of the well approved the BLM or BIA wells listed volume of the BLM or BIA wells listed volume. Output Description of the enhanced of the enha	within a CA on: Division has approve ater disposal well(s	ed UIC Form 5, Transfer	
Inject, for the enhanced/secondary recovery unit/project for the wards and the enhanced secondary recovery unit/project for the wards and the enhanced secondary recovery unit/project for the wards are secondary recovery for the wards are secondary recovery reco	ater disposal well(s		
	12/31/2003		
. Changes have been entered on the Monthly Operator Change Sp	oread Sheet on:	12/31/2003	
Bond information entered in RBDMS on:	N/A		
Fee wells attached to bond in RBDMS on:	N/A		
TATE WELL(S) BOND VERIFICATION: State well(s) covered by Bond Number:	N/A		
EDERAL WELL(S) BOND VERIFICATION: Federal well(s) covered by Bond Number:	UTB000048		
NDIAN WELL(S) BOND VERIFICATION: Indian well(s) covered by Bond Number:	N/A		
EE WELL(S) BOND VERIFICATION: (R649-3-1) The NEW operator of any fee well(s) listed covered by	Bond Number	N/A	
The FORMER operator has requested a release of liability from the The Division sent response by letter on:	ir bond on: N/A	N/A	
EASE INTEREST OWNER NOTIFICATION: (R649-2-10) The FORMER operator of the fee wells has been conta of their responsibility to notify all interest owners of this change on:	acted and informed	by a letter from the Divisi	ion
OMMENTS:			



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155



IN REPLY REFER TO 3180 UT-922

DJ Simmons, Inc. 1009 Ridgeway Place. Suite 200 Farmington, New Mexico 87401 August 19, 2004

43-037-30894 Mustang 3 T365 R23E See 26

Re:

Mustang Unit

San Juan County, Utah

Gentlemen:

On August 18, 2004, we received an indenture dated December 19, 2003, whereby Noble Energy, Inc. resigned as Unit Operator and DJ Simmons, Inc. was designated as Successor Unit Operator for the Mustang Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective August 19, 2004. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Mustang Unit Agreement.

Your Utah statewide oil and gas bond No. UTB000048 will be used to cover all operations within the Mustang Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Terry Catlin

Terry Catlin Acting Chief, Branch of Fluid Minerals

Enclosure

bee:

Field Manager - Moab (w/enclosure)

SITLA

Division of Oil, Gas & Mining

Dockets

File - Mustang Unit (w/enclosure)

Agr. Sec. Chron Fluid Chron Central Files

UT922:TAThompson:tt:8/19/04

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DIV. OF OIL, GAS & MINING